

Appendix for Band 5

Product Name: 4G Smart Phone
Model No: Wildfire E2

Appendix A: Average Power Output Data

Test Result

Channel Bandwidth: 1.4 MHz

Modulation	Channel	RB Configuration		Average Power [dBm]	Verdict
		Size	Offset		
QPSK	LCH	1	0	24.31	PASS
		1	3	24.37	PASS
		1	5	24.32	PASS
		3	0	24.37	PASS
		3	2	24.43	PASS
		3	3	24.38	PASS
		6	0	23.44	PASS
	MCH	1	0	24.31	PASS
		1	3	24.49	PASS
		1	5	24.32	PASS
		3	0	24.37	PASS
		3	2	24.36	PASS
		3	3	24.32	PASS
		6	0	23.48	PASS
	HCH	1	0	24.27	PASS
		1	3	24.45	PASS
		1	5	24.29	PASS
		3	0	24.33	PASS
		3	2	24.34	PASS
		3	3	24.30	PASS
		6	0	23.48	PASS
16QAM	LCH	1	0	23.46	PASS
		1	3	23.67	PASS
		1	5	23.50	PASS
		3	0	23.41	PASS
		3	2	23.46	PASS
		3	3	23.46	PASS
		6	0	22.34	PASS
	MCH	1	0	23.51	PASS
		1	3	23.71	PASS
		1	5	23.53	PASS
		3	0	23.21	PASS
		3	2	23.23	PASS

		3	3	23.23	PASS
		6	0	22.35	PASS
	HCH	1	0	23.40	PASS
		1	3	23.58	PASS
		1	5	23.40	PASS
		3	0	23.29	PASS
		3	2	23.30	PASS
		3	3	23.27	PASS
		6	0	22.49	PASS

Channel Bandwidth: 3 MHz

Modulation	Channel	RB Configuration		Average Power [dBm]	Verdict
		Size	Offset		
QPSK	LCH	1	0	24.29	PASS
		1	7	24.60	PASS
		1	14	24.35	PASS
		8	0	23.45	PASS
		8	4	23.46	PASS
		8	7	23.41	PASS
		15	0	23.38	PASS
	MCH	1	0	24.40	PASS
		1	7	24.58	PASS
		1	14	24.37	PASS
		8	0	23.47	PASS
		8	4	23.49	PASS
		8	7	23.44	PASS
		15	0	23.35	PASS
	HCH	1	0	24.40	PASS
		1	7	24.57	PASS
		1	14	24.33	PASS
		8	0	23.40	PASS
		8	4	23.46	PASS
		8	7	23.40	PASS
		15	0	23.38	PASS
16QAM	LCH	1	0	23.54	PASS
		1	7	23.76	PASS
		1	14	23.65	PASS
		8	0	22.48	PASS
		8	4	22.53	PASS
		8	7	22.46	PASS
		15	0	22.34	PASS

	MCH	1	0	23.65	PASS
		1	7	23.79	PASS
		1	14	23.60	PASS
		8	0	22.38	PASS
		8	4	22.38	PASS
		8	7	22.35	PASS
		15	0	22.30	PASS
	HCH	1	0	23.64	PASS
		1	7	23.74	PASS
		1	14	23.44	PASS
		8	0	22.34	PASS
		8	4	22.35	PASS
		8	7	22.29	PASS
		15	0	22.29	PASS

Channel Bandwidth: 5 MHz

Modulation	Channel	RB Configuration		Average Power [dBm]	Verdict
		Size	Offset		
QPSK	LCH	1	0	24.29	PASS
		1	12	24.75	PASS
		1	24	24.42	PASS
		12	0	23.45	PASS
		12	6	23.46	PASS
		12	13	23.40	PASS
		25	0	23.45	PASS
	MCH	1	0	24.36	PASS
		1	12	24.62	PASS
		1	24	24.27	PASS
		12	0	23.35	PASS
		12	6	23.43	PASS
		12	13	23.41	PASS
		25	0	23.36	PASS
	HCH	1	0	24.37	PASS
		1	12	24.66	PASS
		1	24	24.36	PASS
		12	0	23.40	PASS
		12	6	23.43	PASS
		12	13	23.36	PASS
		25	0	23.36	PASS
16QAM	LCH	1	0	23.53	PASS
		1	12	23.82	PASS

		1	24	23.61	PASS
		12	0	22.43	PASS
		12	6	22.50	PASS
		12	13	22.39	PASS
		25	0	22.44	PASS
	MCH	1	0	23.46	PASS
		1	12	23.69	PASS
		1	24	23.40	PASS
		12	0	22.38	PASS
		12	6	22.46	PASS
		12	13	22.43	PASS
	HCH	25	0	22.34	PASS
		1	0	23.55	PASS
		1	12	23.73	PASS
		1	24	23.41	PASS
		12	0	22.35	PASS
		12	6	22.40	PASS
		12	13	22.31	PASS
	25	0	22.42	PASS	

Channel Bandwidth: 10 MHz

Modulation	Channel	RB Configuration		Average Power [dBm]	Verdict
		Size	Offset		
QPSK	LCH	1	0	24.31	PASS
		1	24	24.57	PASS
		1	49	24.34	PASS
		25	0	23.57	PASS
		25	12	23.42	PASS
		25	25	23.53	PASS
		50	0	23.50	PASS
	MCH	1	0	24.79	PASS
		1	24	24.55	PASS
		1	49	24.27	PASS
		25	0	23.37	PASS
		25	12	23.46	PASS
		25	25	23.43	PASS
		50	0	23.35	PASS
	HCH	1	0	24.38	PASS
		1	24	24.57	PASS
		1	49	24.33	PASS
		25	0	23.55	PASS

		25	12	23.44	PASS
		25	25	23.41	PASS
		50	0	23.47	PASS
16QAM	LCH	1	0	23.55	PASS
		1	24	23.86	PASS
		1	49	23.56	PASS
		25	0	22.59	PASS
		25	12	22.49	PASS
		25	25	22.53	PASS
		50	0	22.47	PASS
	MCH	1	0	23.72	PASS
		1	24	23.74	PASS
		1	49	23.64	PASS
		25	0	22.35	PASS
		25	12	22.36	PASS
		25	25	22.40	PASS
		50	0	22.35	PASS
	HCH	1	0	23.59	PASS
		1	24	23.80	PASS
		1	49	23.48	PASS
		25	0	22.58	PASS
		25	12	22.44	PASS
		25	25	22.40	PASS
		50	0	22.46	PASS

Appendix B: Peak-to-Average Ratio

Test Result

Channel Bandwidth: 1.4 MHz

Channel Bandwidth: 1.4 MHz						
Modulation	Channel	RB Configuration		Peak-to-Average Ratio (dB)	Limit (dB)	Verdict
		Size	Offset			
QPSK	LCH	1	0	3.53	<13	PASS
		1	3	3.7	<13	PASS
		1	5	3.97	<13	PASS
		3	0	3.58	<13	PASS
		3	2	3.7	<13	PASS
		3	3	3.81	<13	PASS
		6	0	4.48	<13	PASS
	MCH	1	0	3.03	<13	PASS
		1	3	2.85	<13	PASS
		1	5	3.03	<13	PASS
		3	0	3.1	<13	PASS
		3	2	3.04	<13	PASS
		3	3	3.08	<13	PASS
		6	0	3.79	<13	PASS
	HCH	1	0	3.45	<13	PASS
		1	3	2.88	<13	PASS
		1	5	2.97	<13	PASS
		3	0	3.24	<13	PASS
		3	2	3.01	<13	PASS
		3	3	2.99	<13	PASS
		6	0	3.96	<13	PASS
16QAM	LCH	1	0	4.55	<13	PASS
		1	3	4.66	<13	PASS
		1	5	4.79	<13	PASS
		3	0	4.49	<13	PASS
		3	2	4.63	<13	PASS
		3	3	4.75	<13	PASS
		6	0	5.39	<13	PASS
	MCH	1	0	4.11	<13	PASS
		1	3	3.92	<13	PASS
1		5	4.11	<13	PASS	

		3	0	4.16	<13	PASS
		3	2	4.13	<13	PASS
		3	3	4.13	<13	PASS
		6	0	4.78	<13	PASS
	HCH	1	0	4.51	<13	PASS
		1	3	3.95	<13	PASS
		1	5	4.03	<13	PASS
		3	0	4.23	<13	PASS
		3	2	3.98	<13	PASS
		3	3	3.93	<13	PASS
		6	0	4.93	<13	PASS

Channel Bandwidth: 3 MHz

Channel Bandwidth: 3 MHz							
Modulation	Channel	RB Configuration		Peak-to-Average Ratio [dB]	Limit [dB]	Verdict	
		Size	Offset				
QPSK	LCH	1	0	8.79	<13	PASS	
		1	7	4	<13	PASS	
		1	14	4.56	<13	PASS	
		8	0	4.45	<13	PASS	
		8	4	4.7	<13	PASS	
		8	7	4.94	<13	PASS	
		15	0	4.76	<13	PASS	
	MCH	1	0	3.1	<13	PASS	
		1	7	2.89	<13	PASS	
		1	14	2.97	<13	PASS	
		8	0	3.91	<13	PASS	
		8	4	3.84	<13	PASS	
		8	7	3.9	<13	PASS	
		15	0	3.96	<13	PASS	
	HCH	1	0	4.19	<13	PASS	
		1	7	3.57	<13	PASS	
		1	14	2.84	<13	PASS	
		8	0	4.68	<13	PASS	
		8	4	4.35	<13	PASS	
		8	7	4.19	<13	PASS	
		15	0	4.39	<13	PASS	
	16QAM	LCH	1	0	4.28	<13	PASS
			1	7	4.86	<13	PASS
			1	14	5.41	<13	PASS
8			0	5.31	<13	PASS	

		8	4	5.54	<13	PASS
		8	7	5.7	<13	PASS
		15	0	5.66	<13	PASS
	MCH	1	0	4.09	<13	PASS
		1	7	3.86	<13	PASS
		1	14	4.01	<13	PASS
		8	0	4.84	<13	PASS
		8	4	4.72	<13	PASS
		8	7	4.73	<13	PASS
		15	0	4.9	<13	PASS
	HCH	1	0	5.15	<13	PASS
		1	7	4.54	<13	PASS
		1	14	3.98	<13	PASS
		8	0	5.67	<13	PASS
		8	4	5.39	<13	PASS
		8	7	5.17	<13	PASS
		15	0	5.35	<13	PASS

Channel Bandwidth: 5 MHz

Channel Bandwidth: 5 MHz						
Modulation	Channel	RB Configuration		Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
		Size	Offset			
QPSK	LCH	1	0	3.73	<13	PASS
		1	12	4.38	<13	PASS
		1	24	4.9	<13	PASS
		12	0	4.72	<13	PASS
		12	6	4.98	<13	PASS
		12	13	5.13	<13	PASS
		25	0	5.01	<13	PASS
	MCH	1	0	3.4	<13	PASS
		1	12	2.9	<13	PASS
		1	24	3.35	<13	PASS
		12	0	4.01	<13	PASS
		12	6	3.87	<13	PASS
		12	13	3.92	<13	PASS
		25	0	4.03	<13	PASS
	HCH	1	0	4.25	<13	PASS
		1	12	4.02	<13	PASS
		1	24	3.03	<13	PASS
		12	0	4.92	<13	PASS
		12	6	4.79	<13	PASS

		12	13	4.43	<13	PASS
		25	0	4.73	<13	PASS
16QAM	LCH	1	0	4.44	<13	PASS
		1	12	5.13	<13	PASS
		1	24	5.6	<13	PASS
		12	0	5.62	<13	PASS
		12	6	5.9	<13	PASS
		12	13	6.12	<13	PASS
		25	0	5.73	<13	PASS
		MCH	1	0	4.4	<13
	1		12	3.89	<13	PASS
	1		24	4.42	<13	PASS
	12		0	4.9	<13	PASS
	12		6	4.8	<13	PASS
	12		13	4.83	<13	PASS
	25		0	4.98	<13	PASS
	HCH	1	0	5.15	<13	PASS
		1	12	4.86	<13	PASS
		1	24	3.78	<13	PASS
		12	0	5.8	<13	PASS
		12	6	5.64	<13	PASS
		12	13	5.32	<13	PASS
		25	0	5.59	<13	PASS

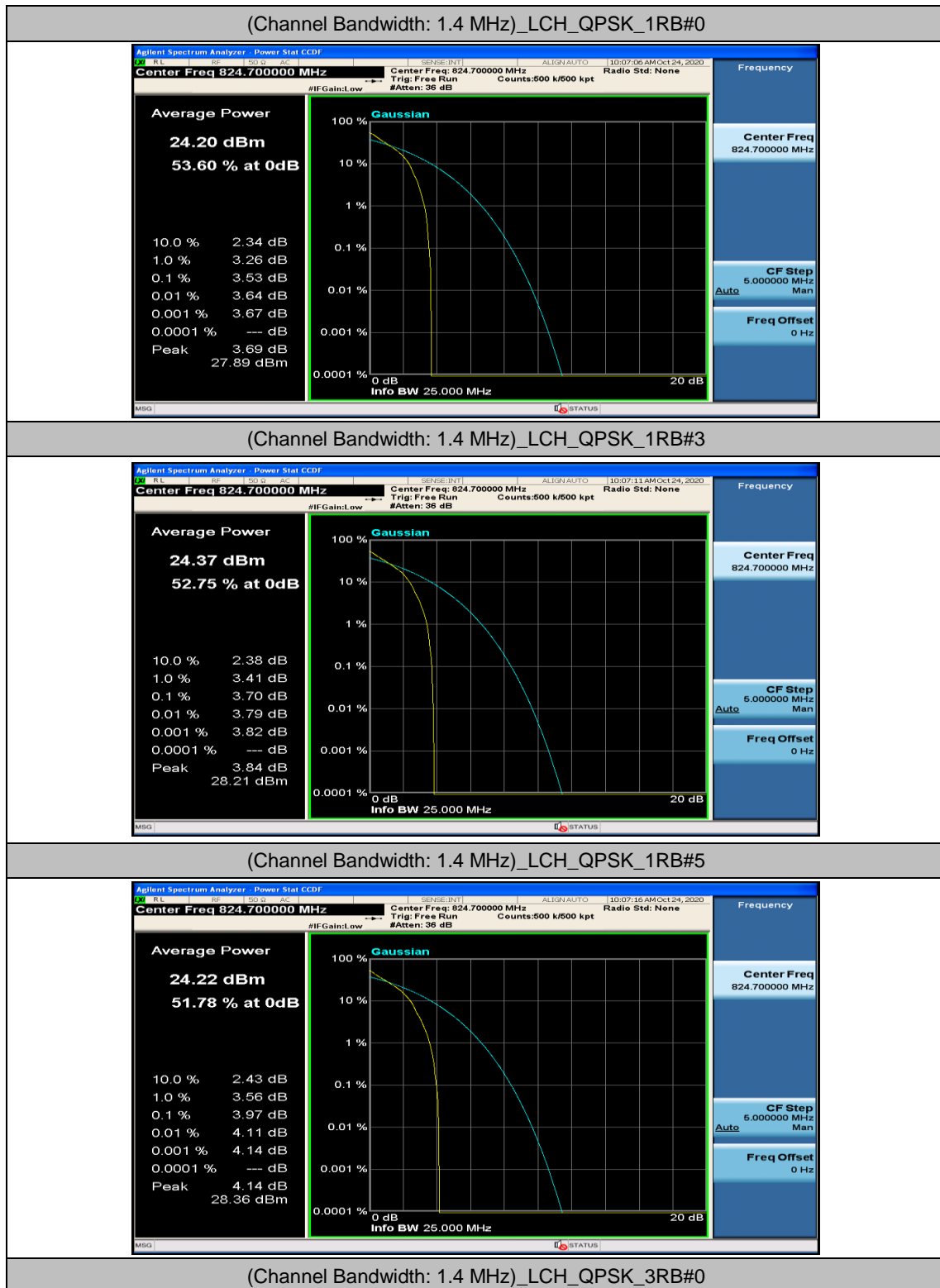
Channel Bandwidth: 10 MHz

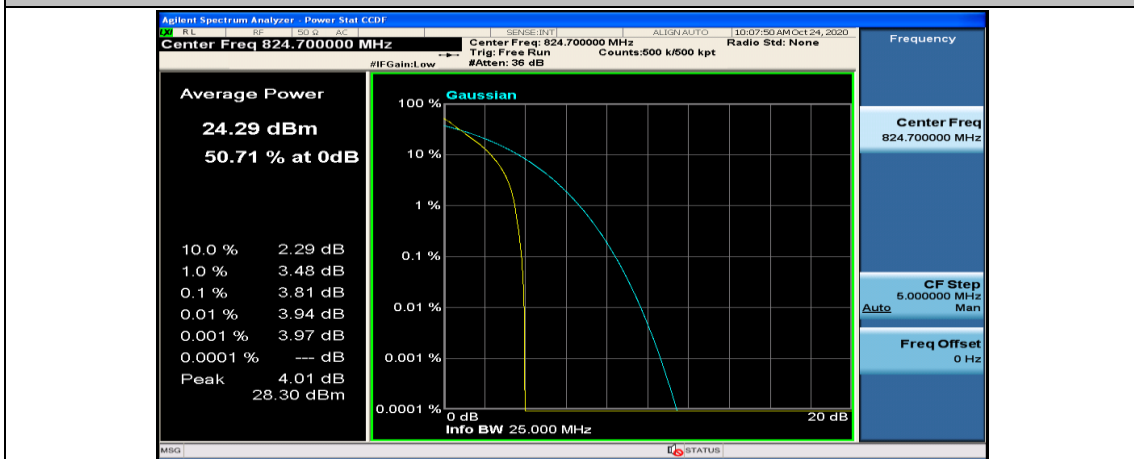
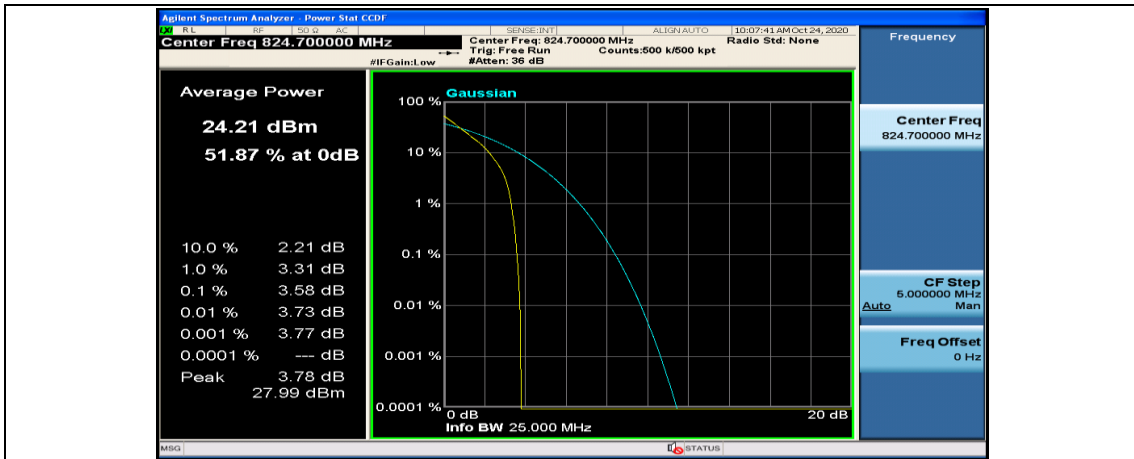
Channel Bandwidth: 10 MHz						
Modulation	Channel	RB Configuration		Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
		Size	Offset			
QPSK	LCH	1	0	3.74	<13	PASS
		1	24	4.53	<13	PASS
		1	49	3.56	<13	PASS
		25	0	4.94	<13	PASS
		25	12	5.1	<13	PASS
		25	25	4.84	<13	PASS
		50	0	4.98	<13	PASS
	MCH	1	0	3.88	<13	PASS
		1	24	2.88	<13	PASS
		1	49	3.62	<13	PASS
		25	0	4.32	<13	PASS
		25	12	3.96	<13	PASS
		25	25	4.16	<13	PASS

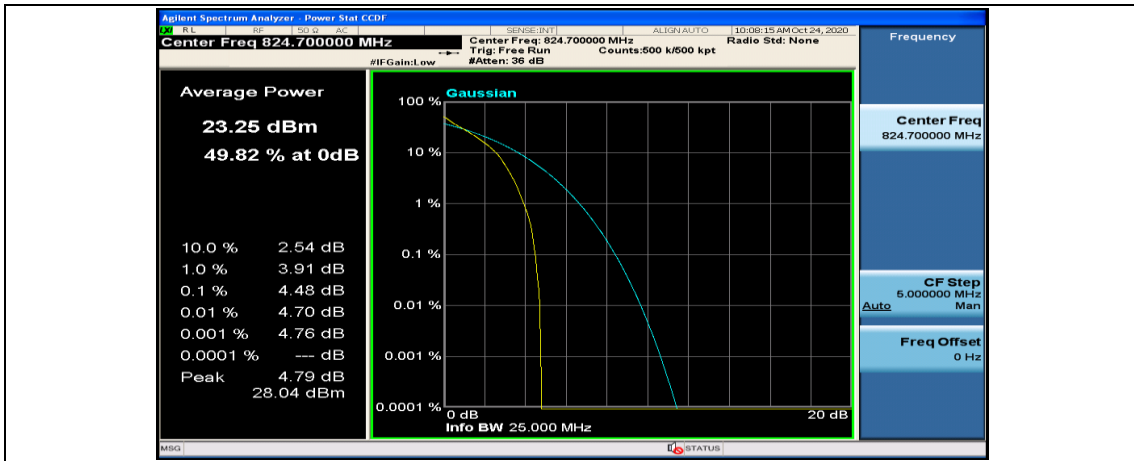
		50	0	4.42	<13	PASS
	HCH	1	0	3.49	<13	PASS
		1	24	4.21	<13	PASS
		1	49	3.09	<13	PASS
		25	0	4.57	<13	PASS
		25	12	4.87	<13	PASS
		25	25	4.72	<13	PASS
		50	0	4.66	<13	PASS
16QAM	LCH	1	0	4.49	<13	PASS
		1	24	5.54	<13	PASS
		1	49	4.55	<13	PASS
		25	0	5.88	<13	PASS
		25	12	5.95	<13	PASS
		25	25	5.68	<13	PASS
		50	0	5.77	<13	PASS
	MCH	1	0	4.9	<13	PASS
		1	24	3.91	<13	PASS
		1	49	4.59	<13	PASS
		25	0	5.22	<13	PASS
		25	12	4.91	<13	PASS
		25	25	5.08	<13	PASS
		50	0	5.21	<13	PASS
	HCH	1	0	4.39	<13	PASS
		1	24	5.16	<13	PASS
		1	49	4.07	<13	PASS
		25	0	5.49	<13	PASS
		25	12	5.8	<13	PASS
		25	25	5.64	<13	PASS
		50	0	5.57	<13	PASS

Test Graphs

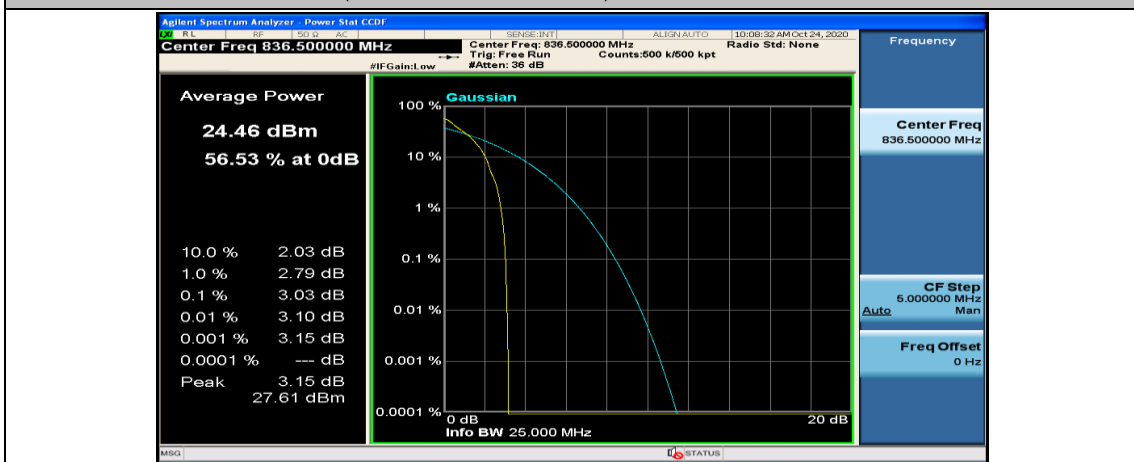
Channel Bandwidth: 1.4 MHz



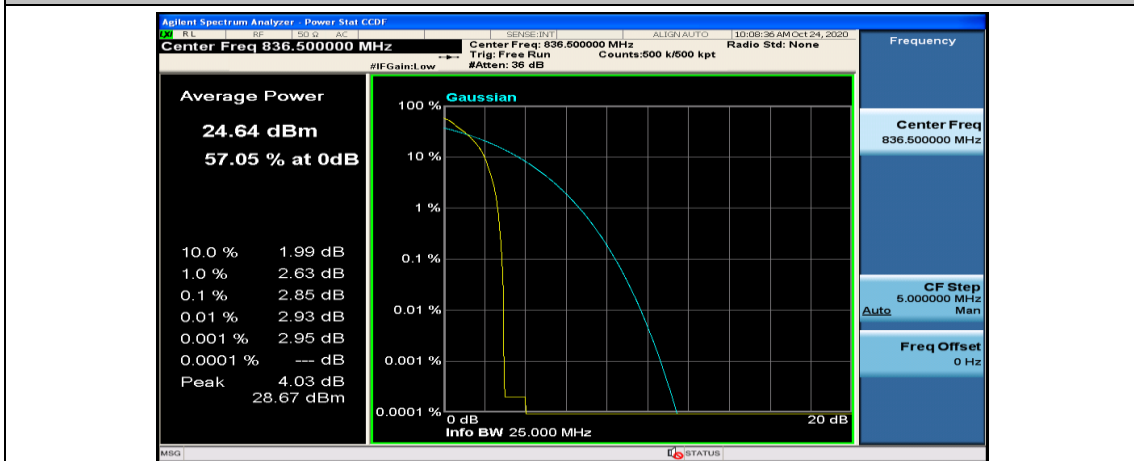




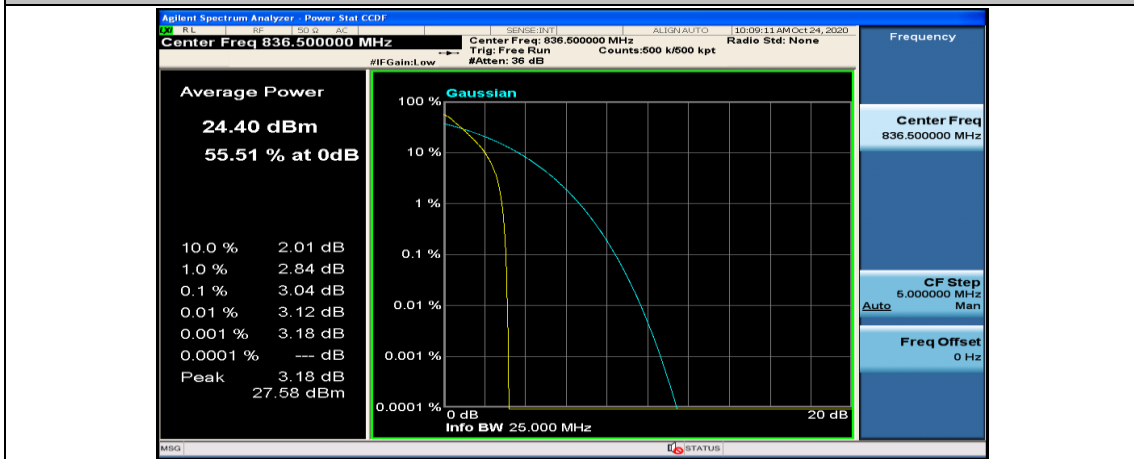
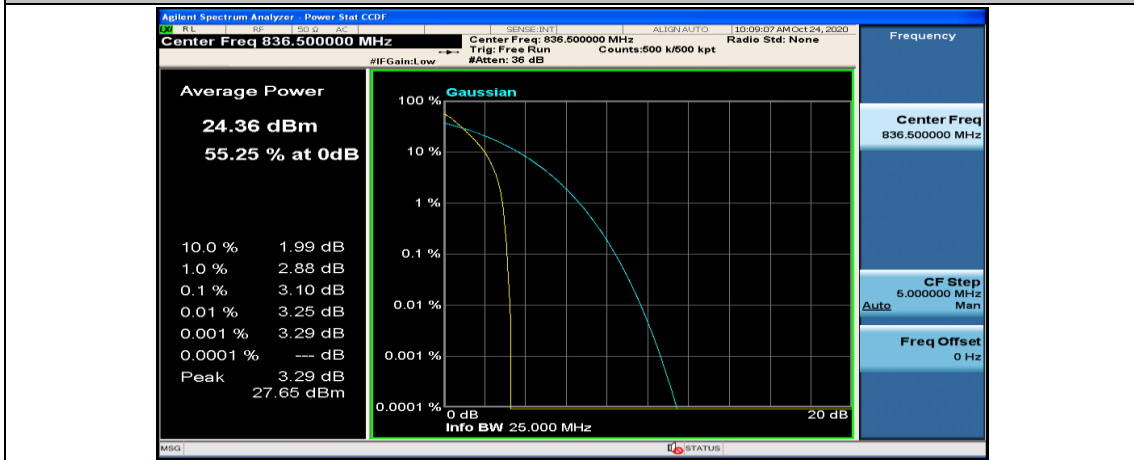
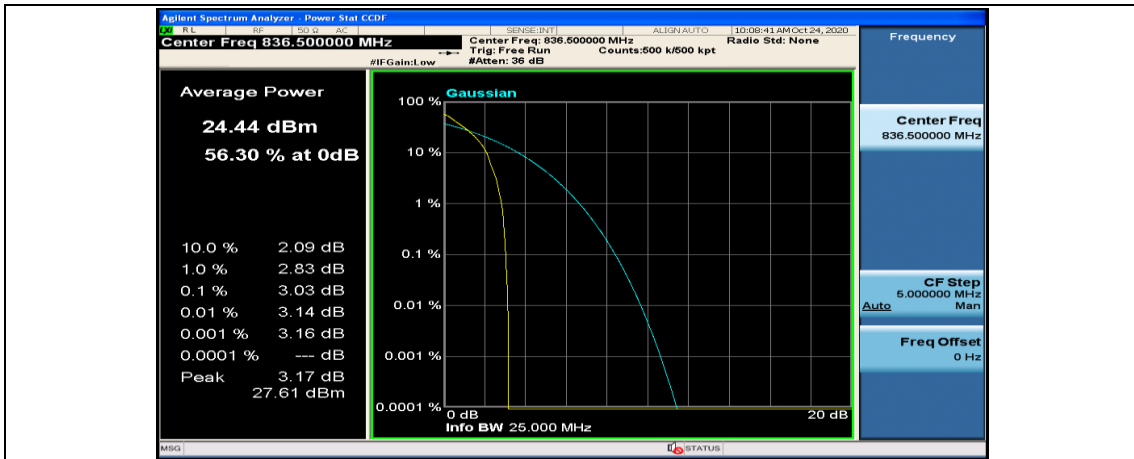
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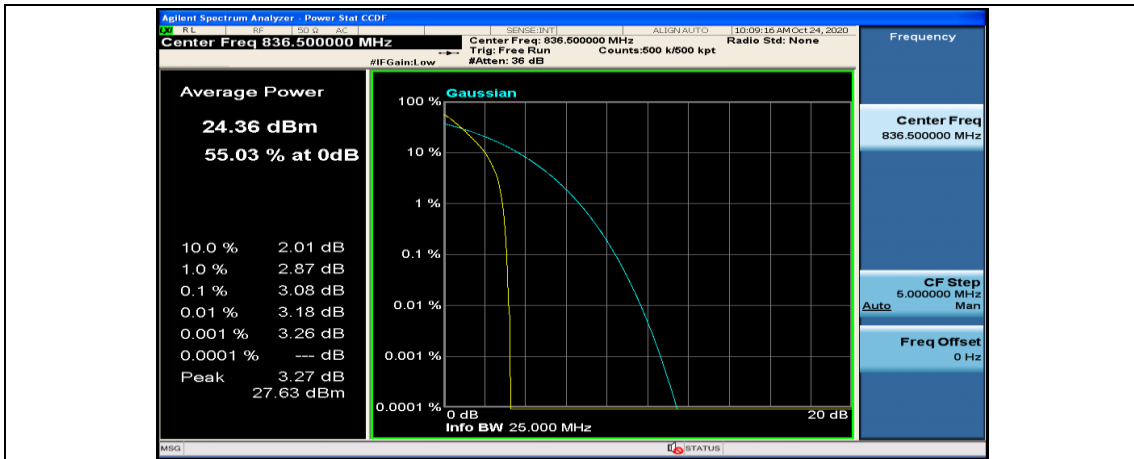


(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_1RB#3

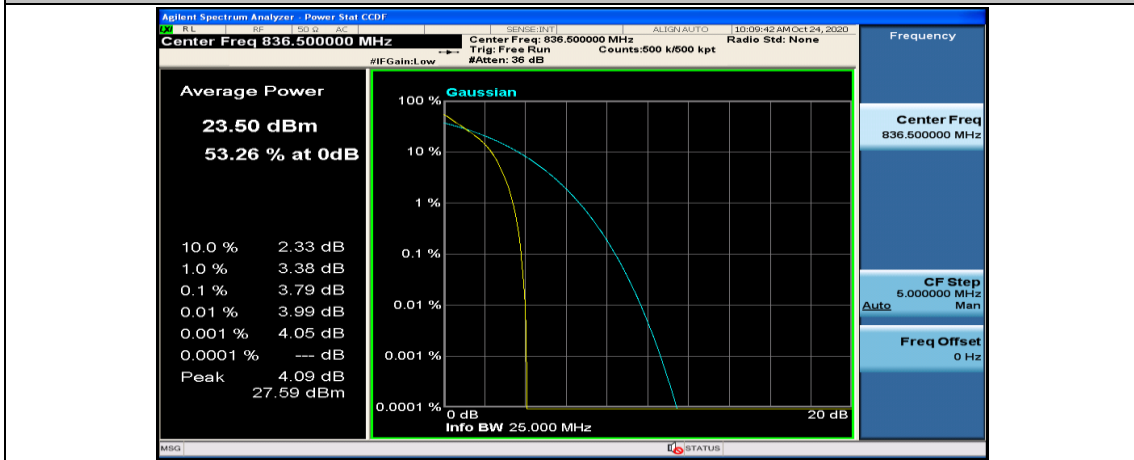


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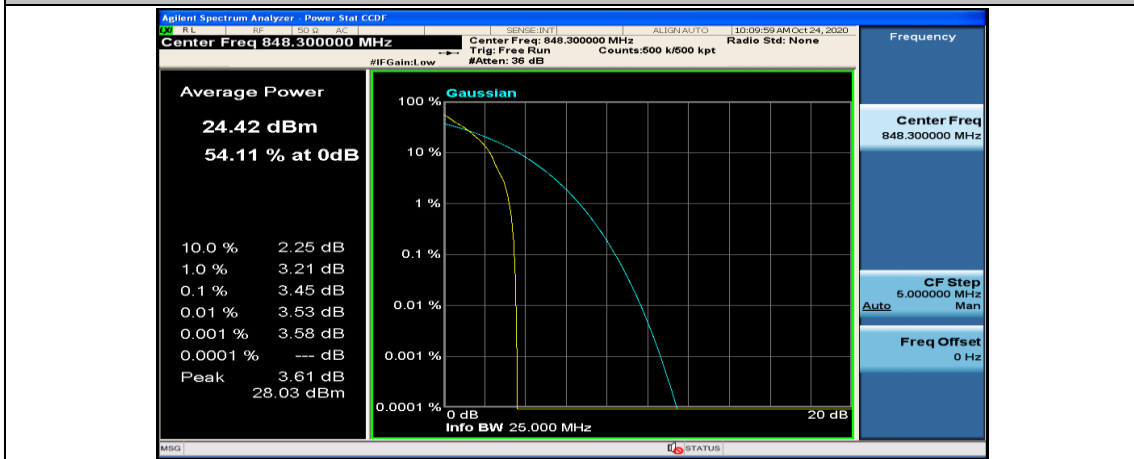




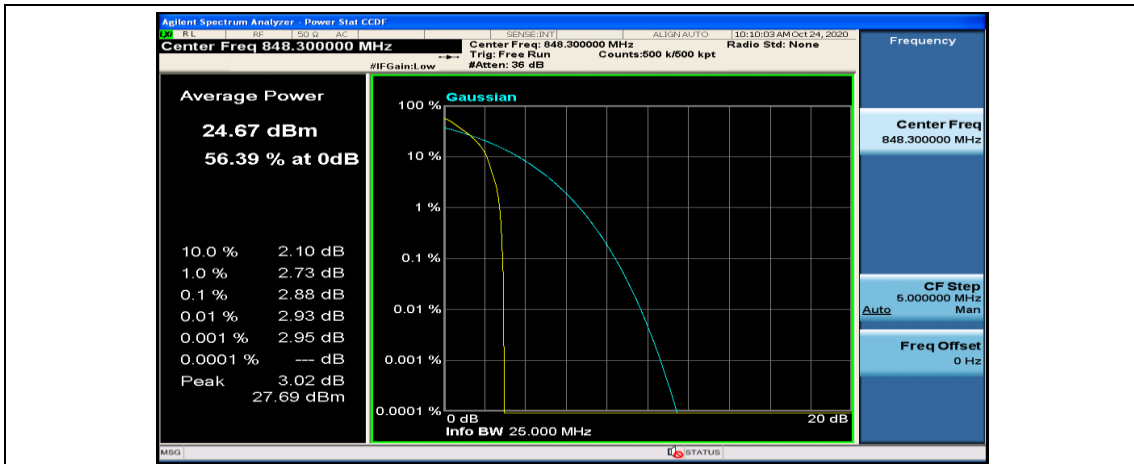
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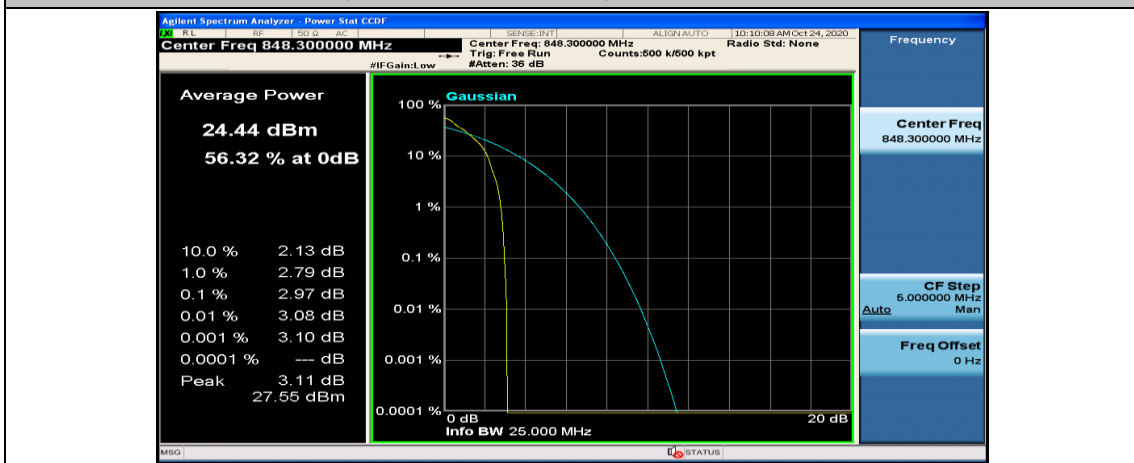
(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_1RB#0



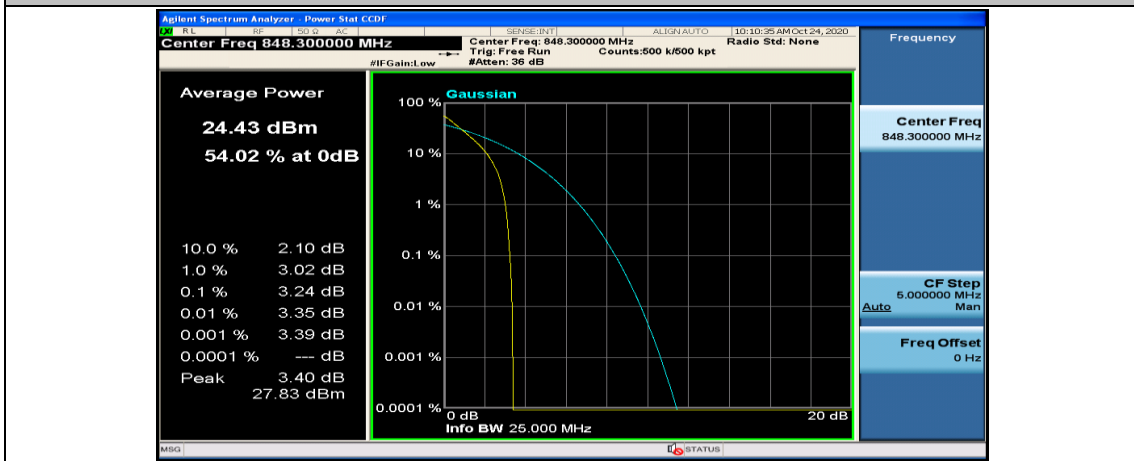
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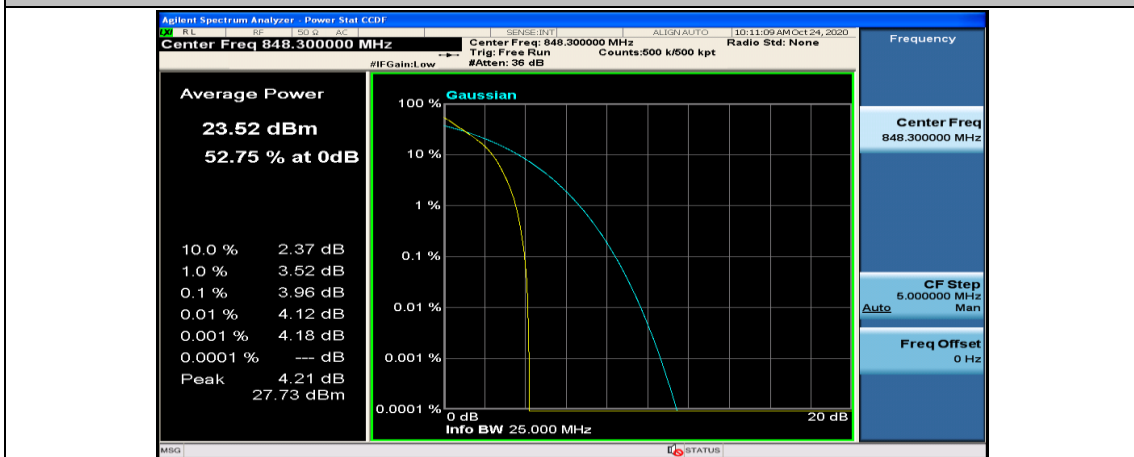
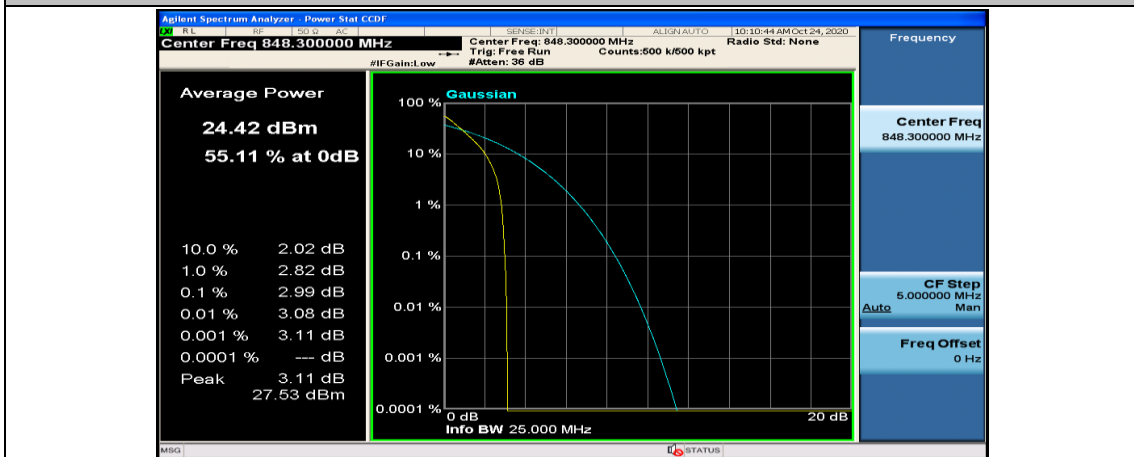
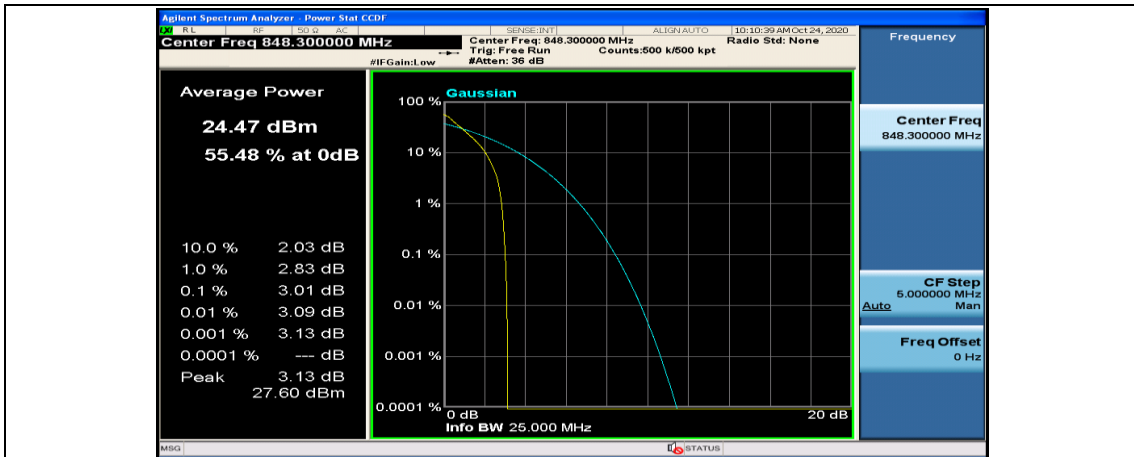
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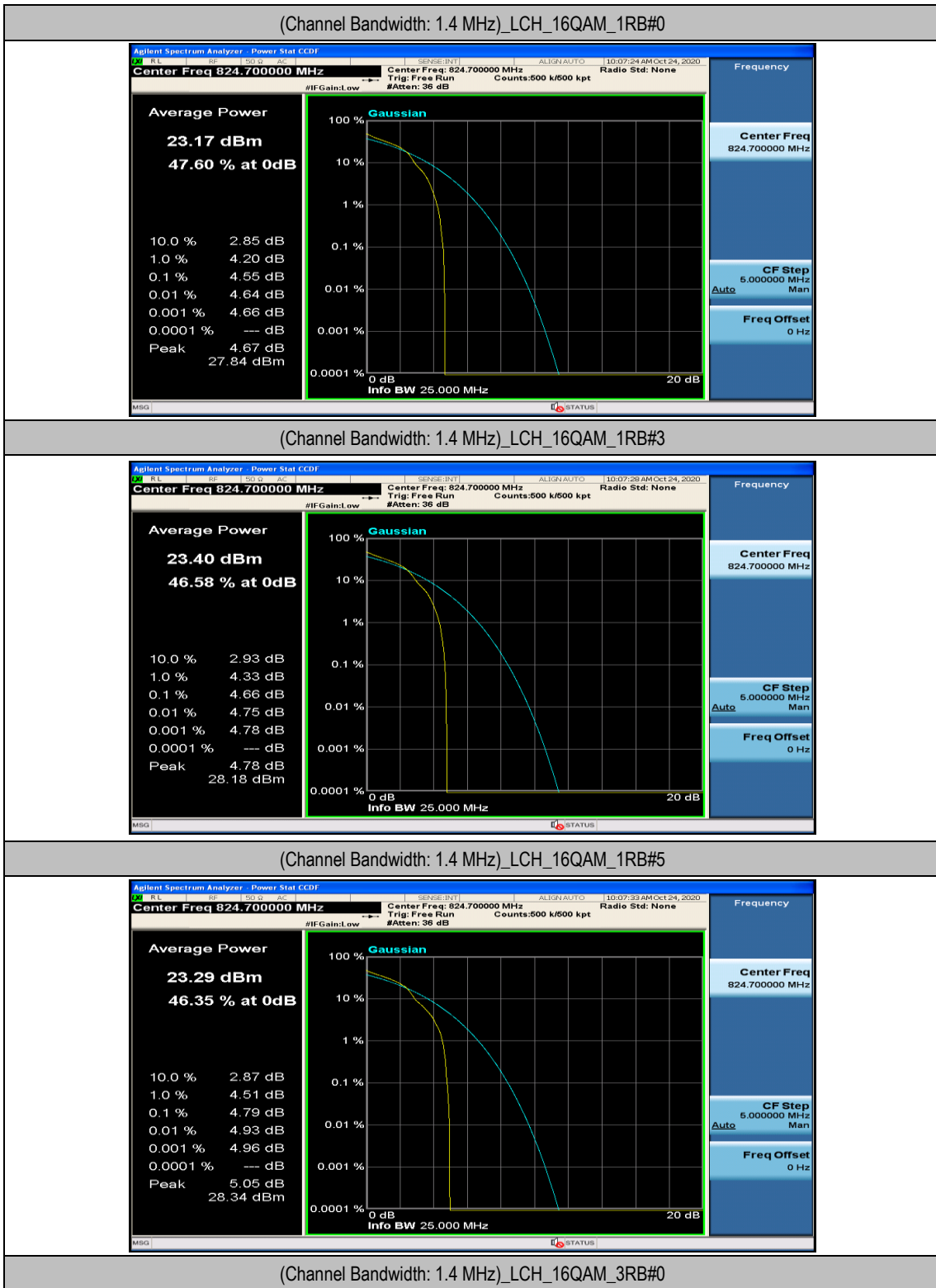


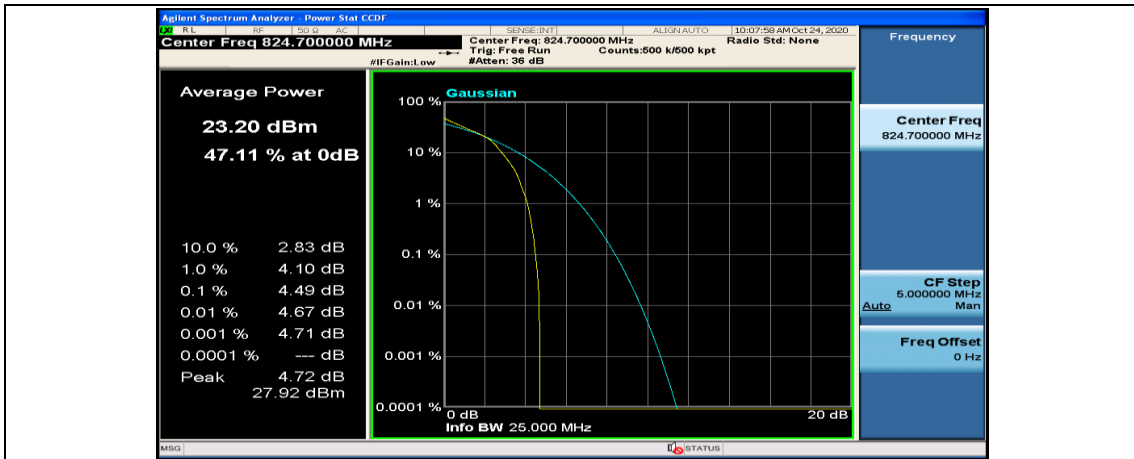
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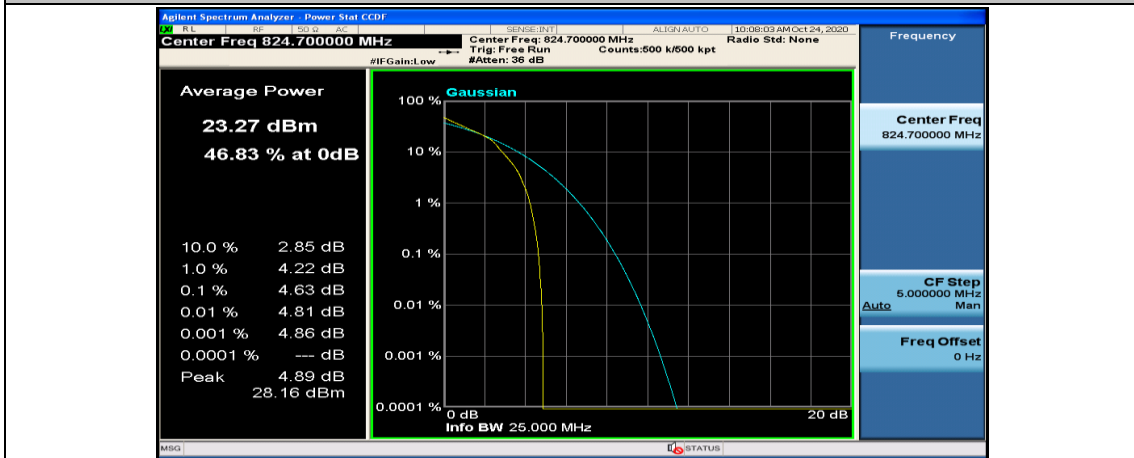
(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_3RB#2



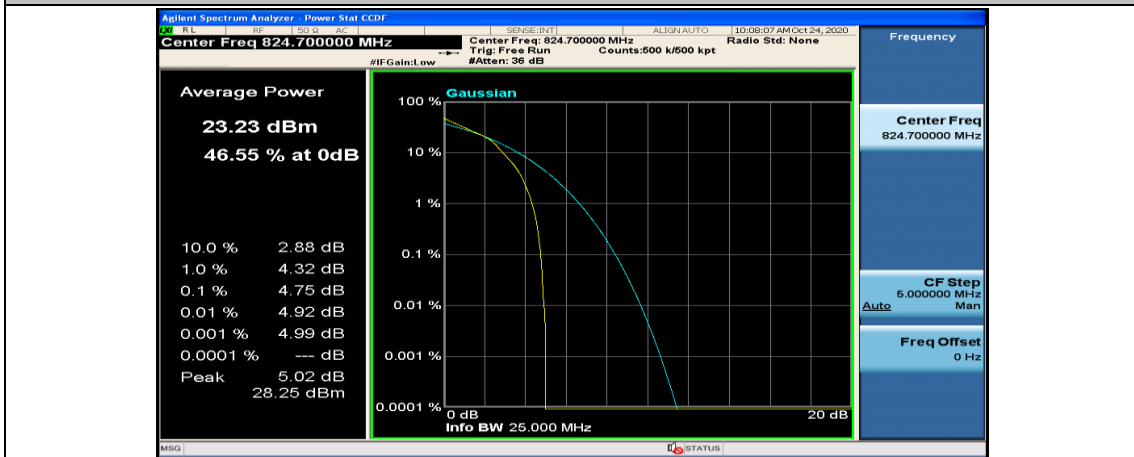




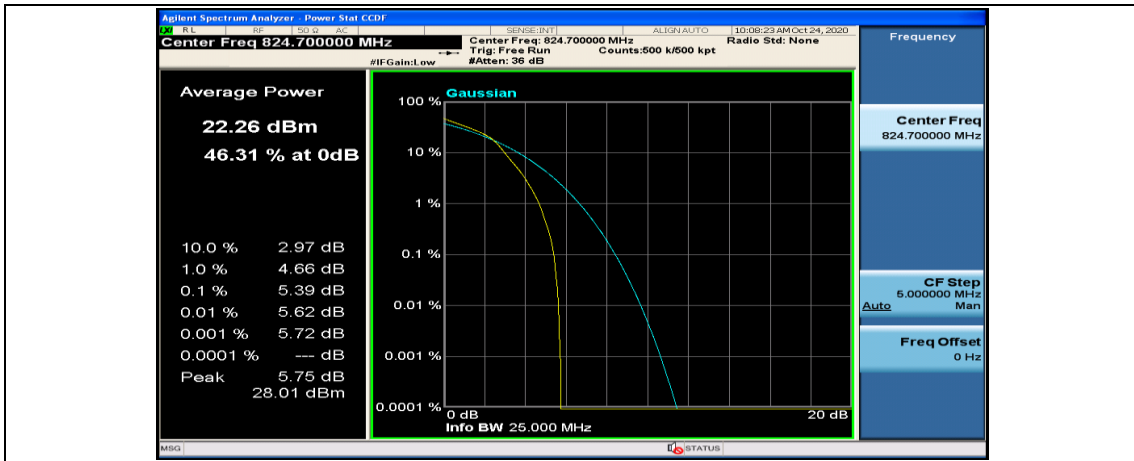
(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_3RB#2



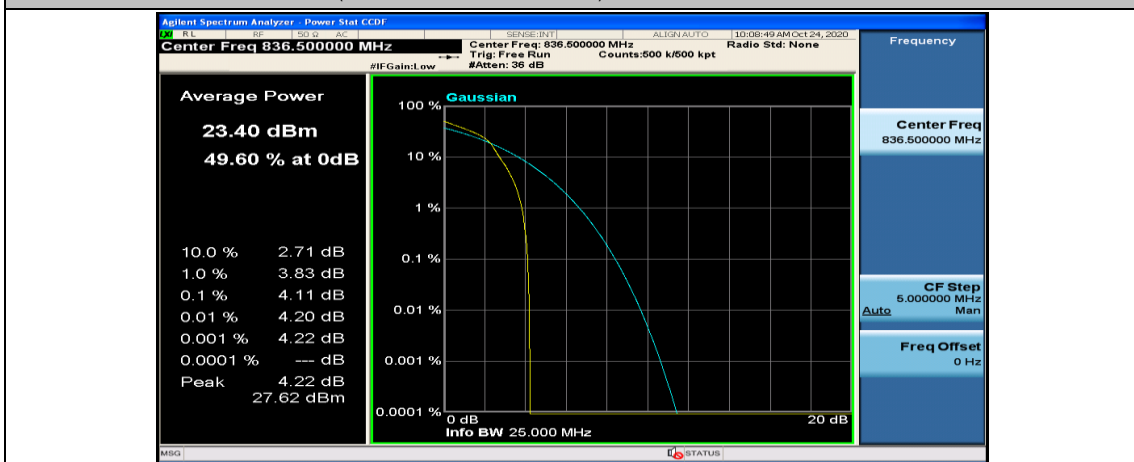
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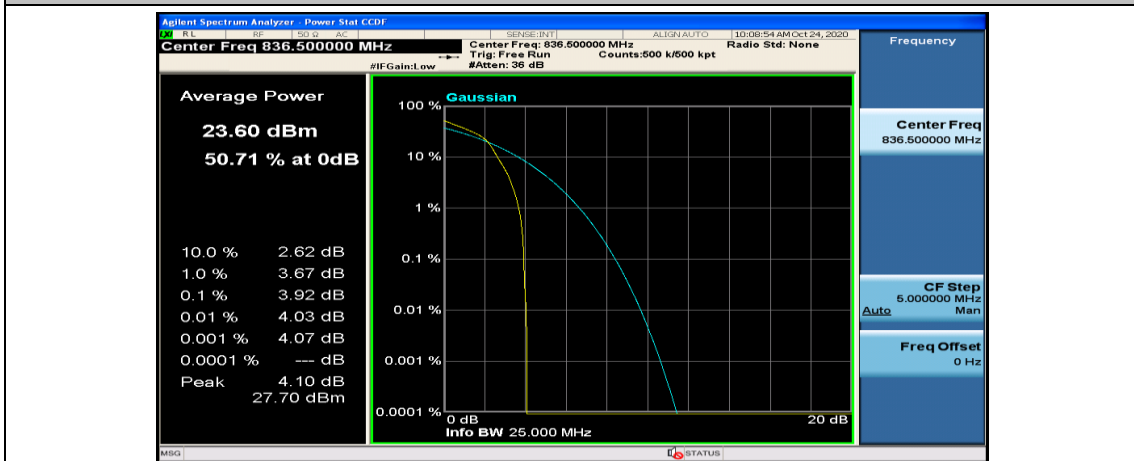
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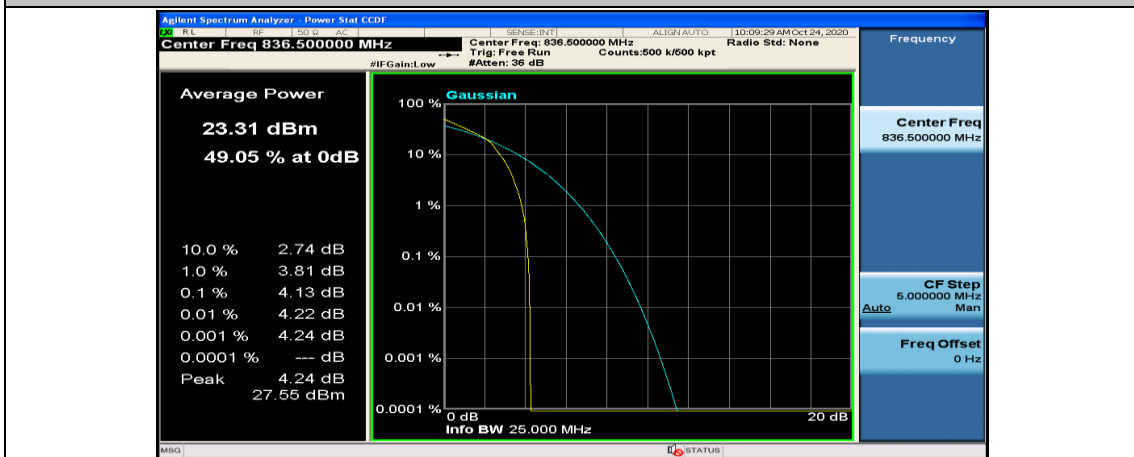
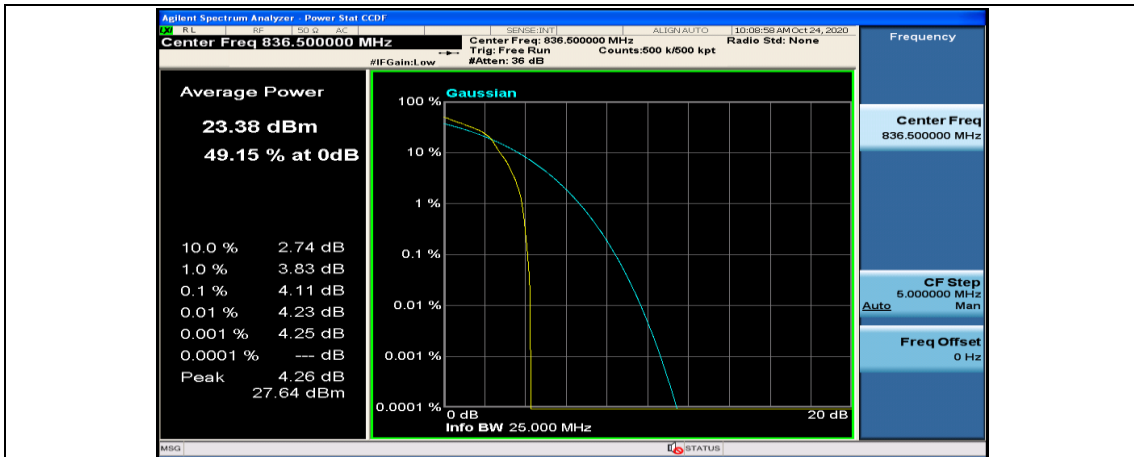
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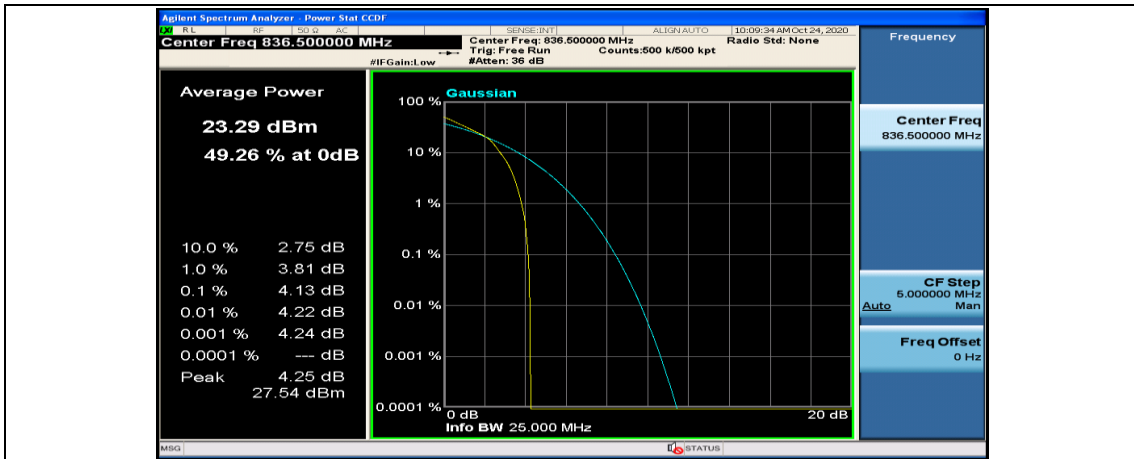


(Channel Bandwidth: 1.4 MHz)_MCH_16QAM_1RB#3

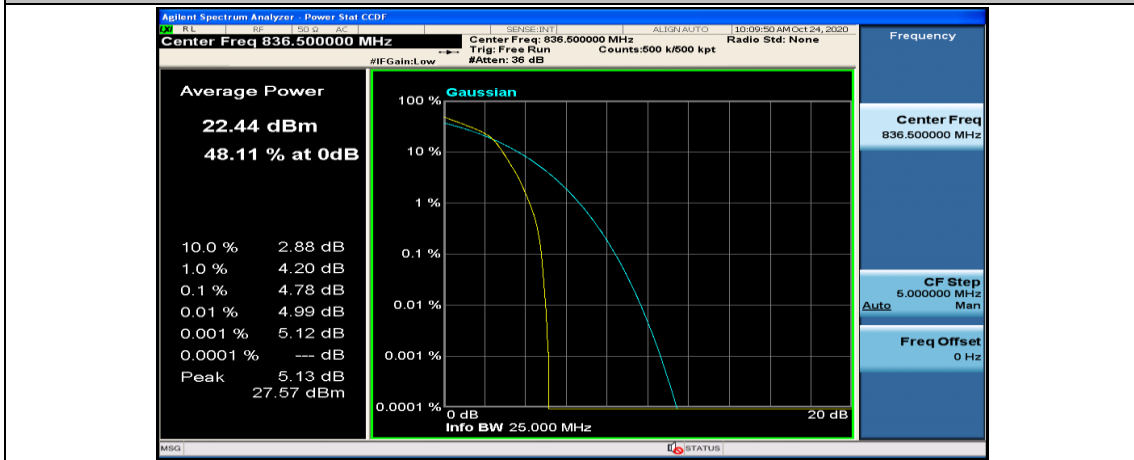


(Channel Bandwidth: 1.4 MHz)_MCH_16QAM_1RB#5

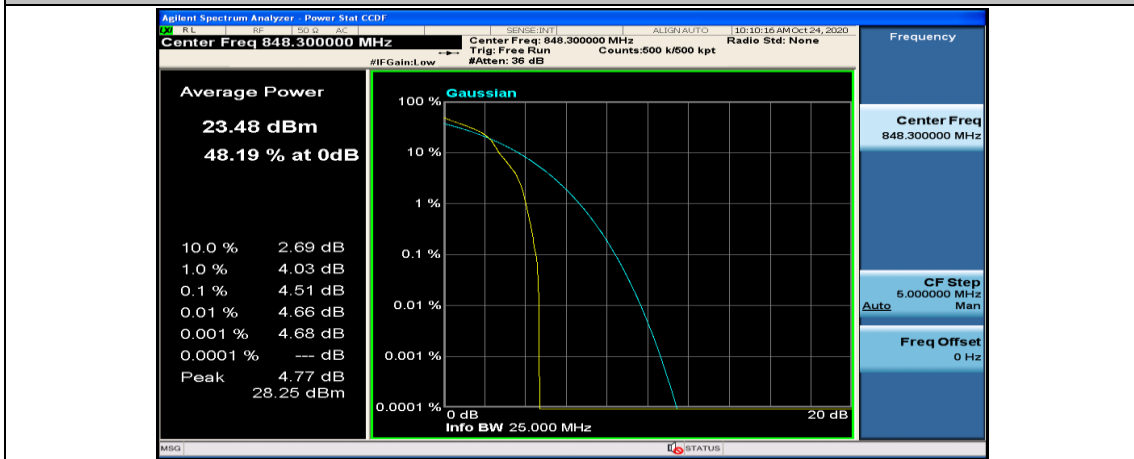




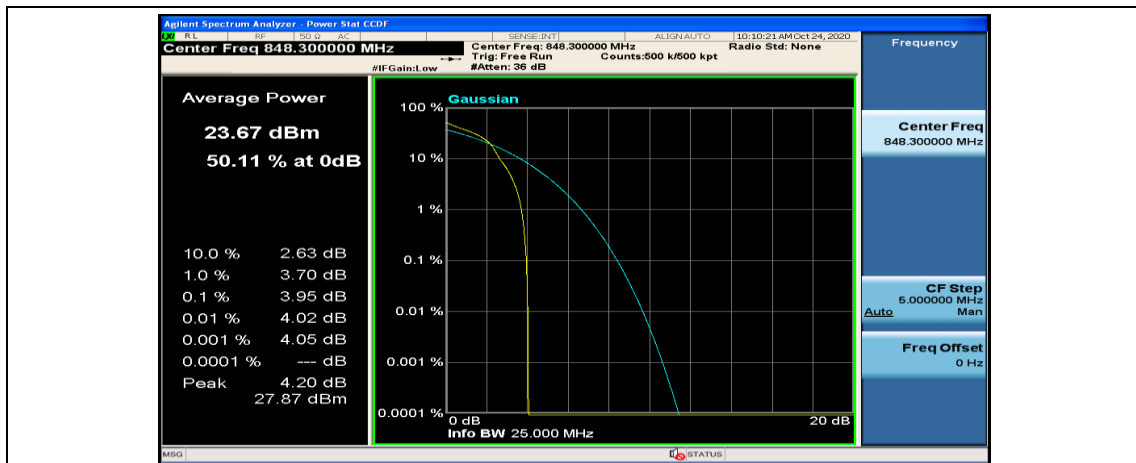
(Channel Bandwidth: 1.4 MHz)_MCH_16QAM_6RB#0



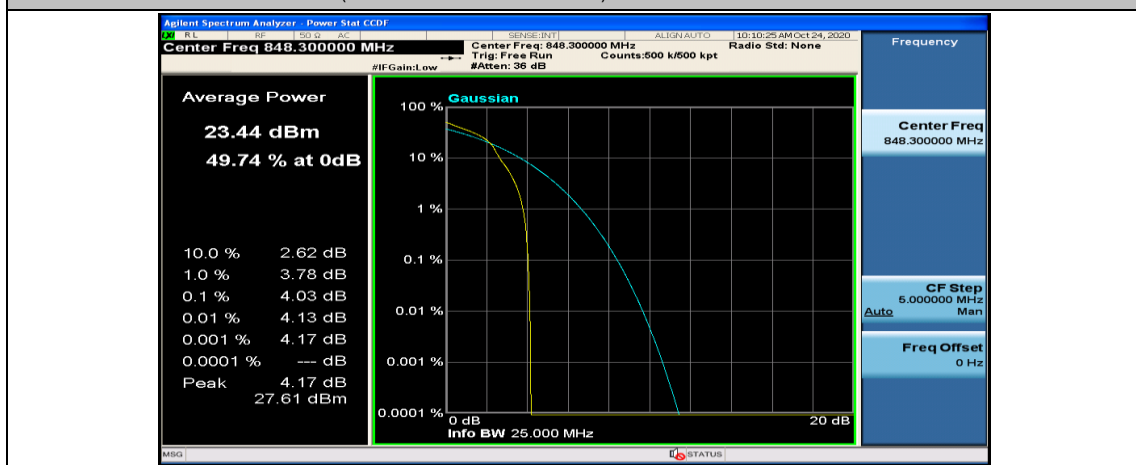
(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_1RB#0



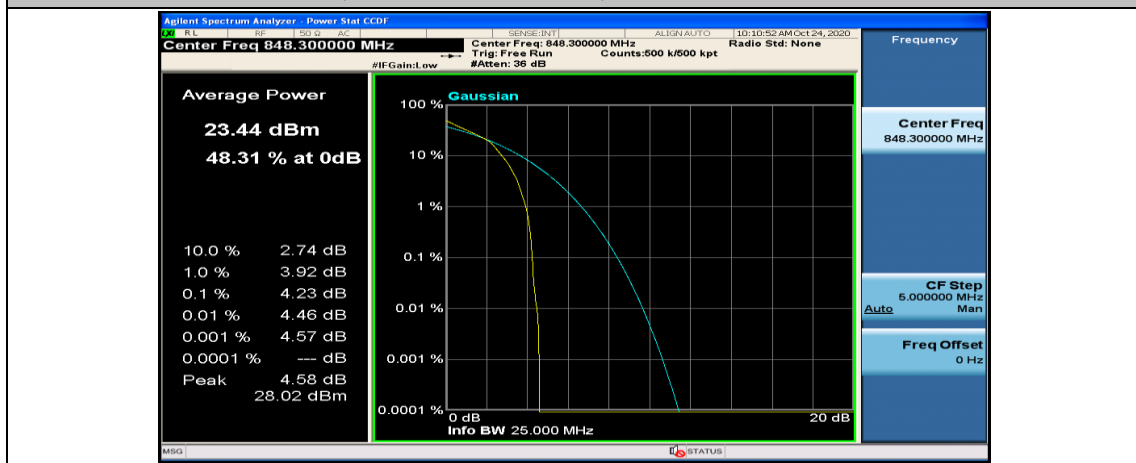
(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_1RB#3



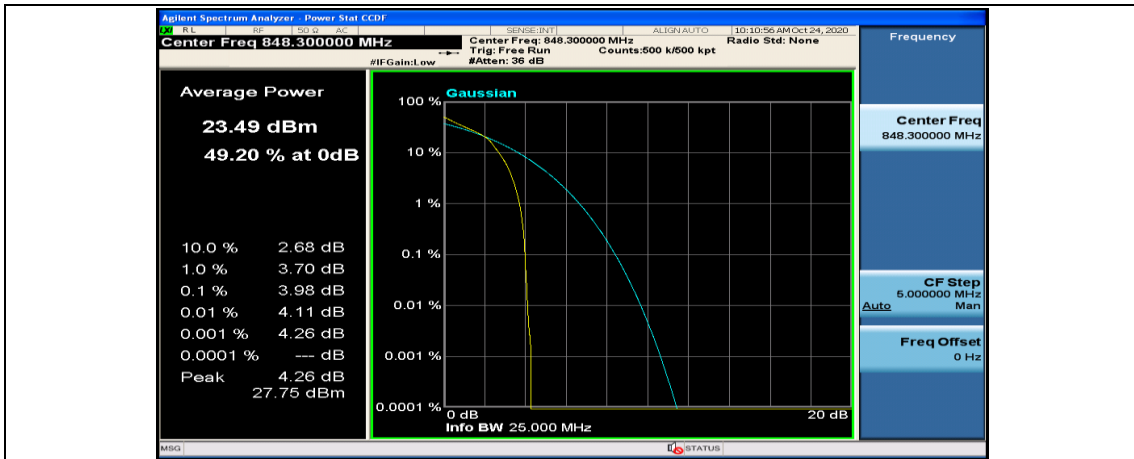
(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_1RB#5



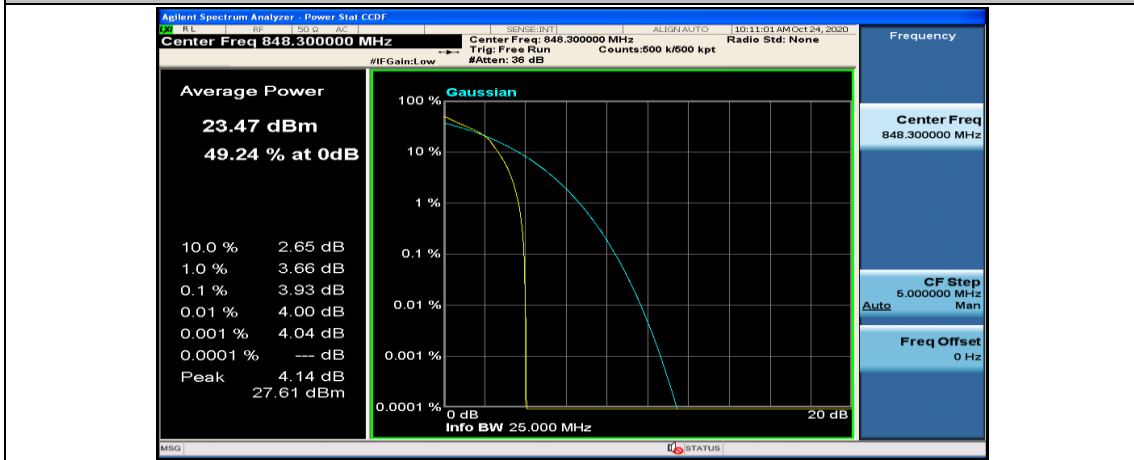
(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_3RB#0



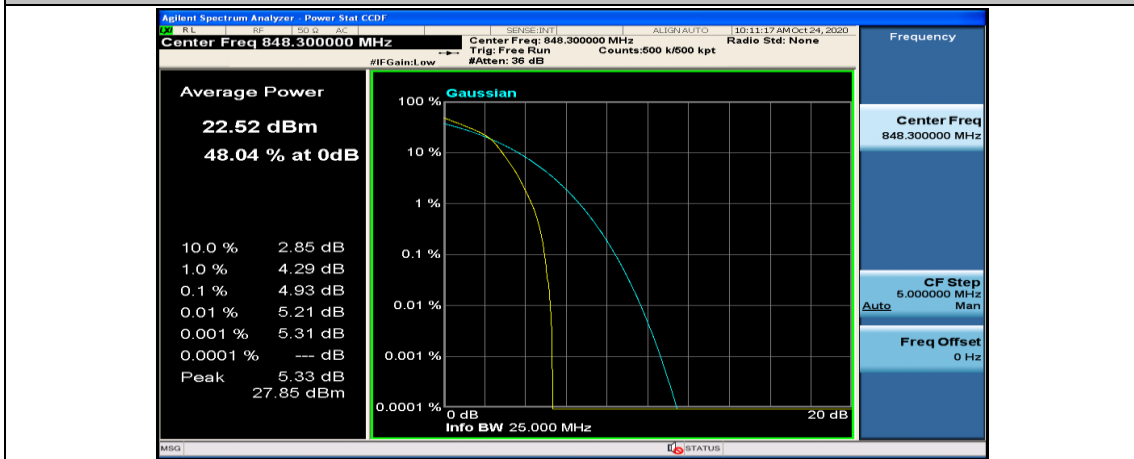
(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_3RB#2



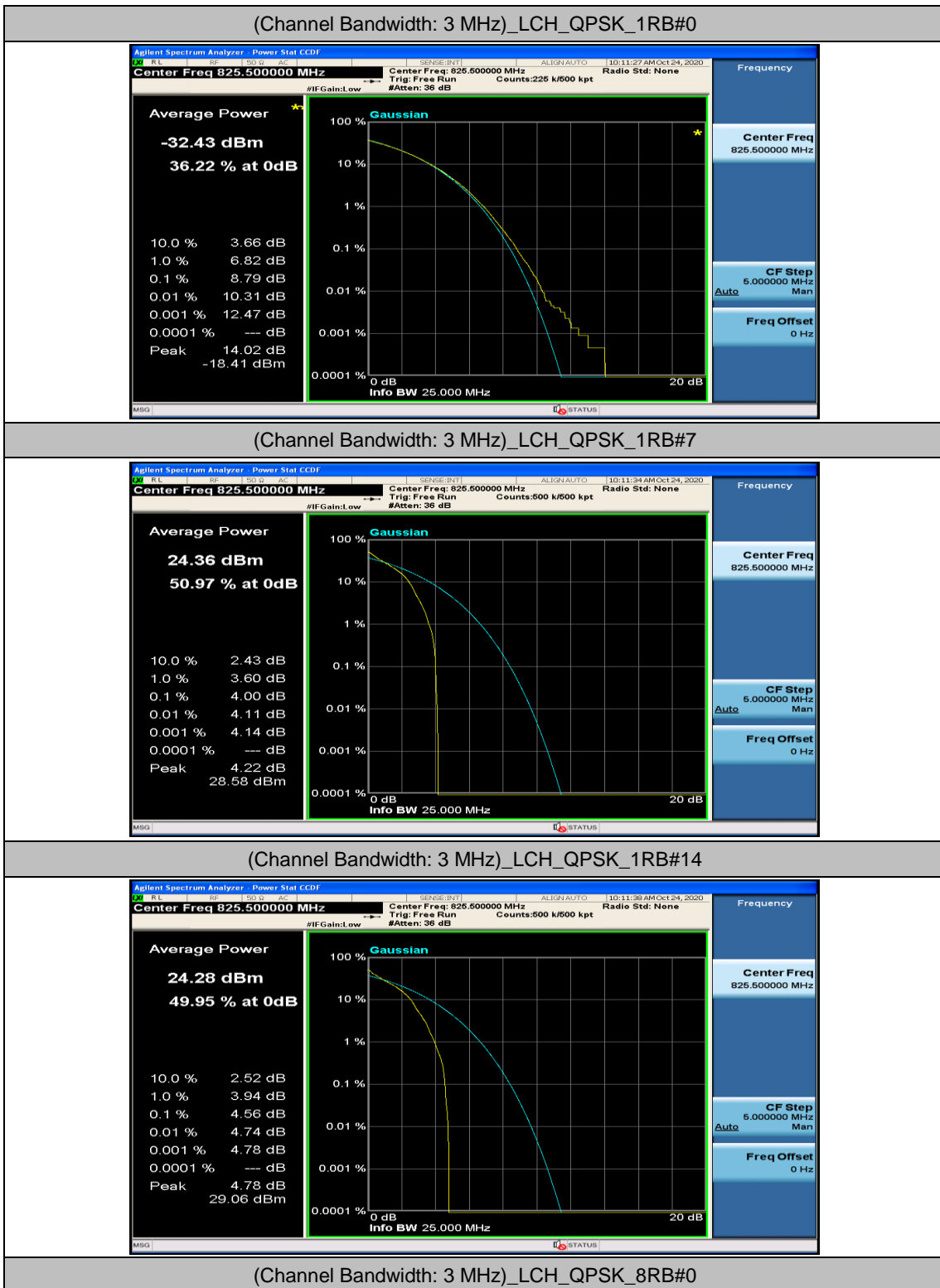
(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_3RB#3

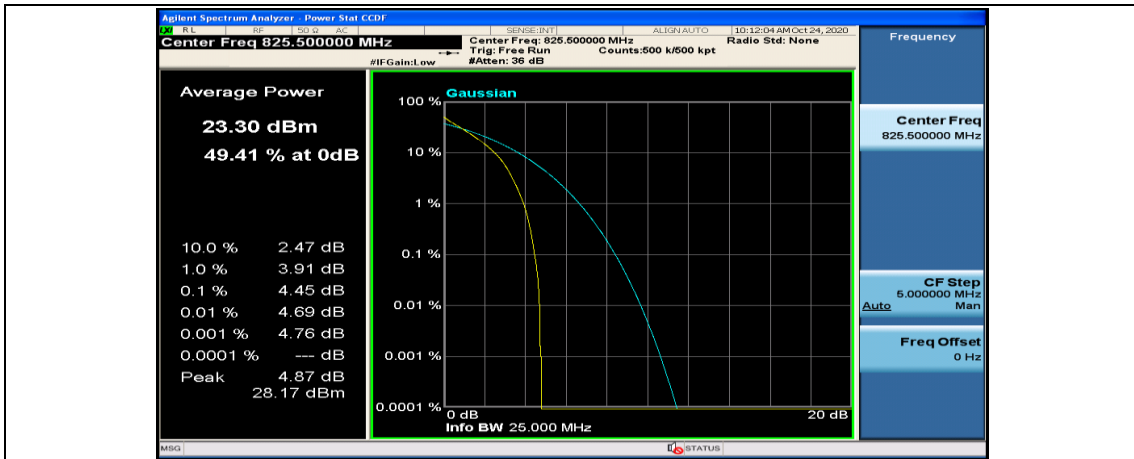


(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_6RB#0

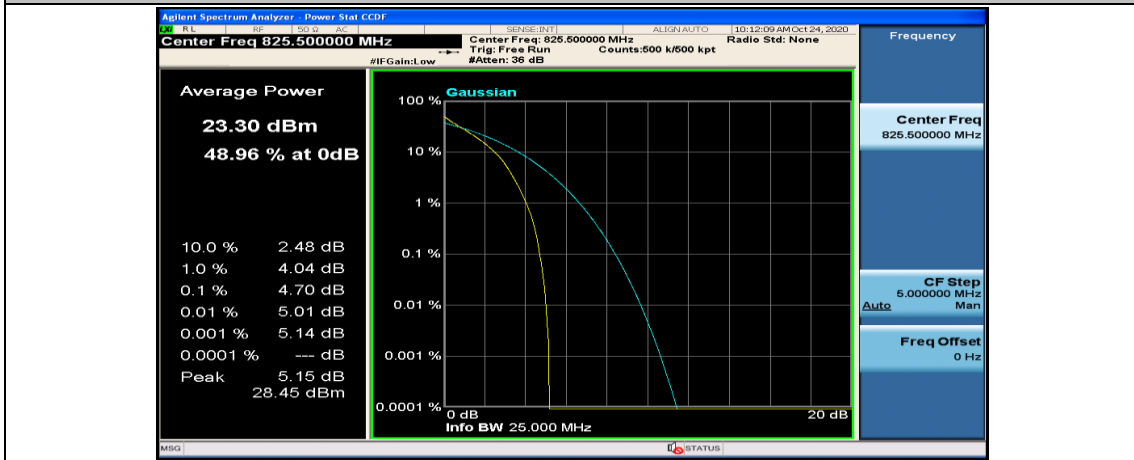


Channel Bandwidth: 3 MHz

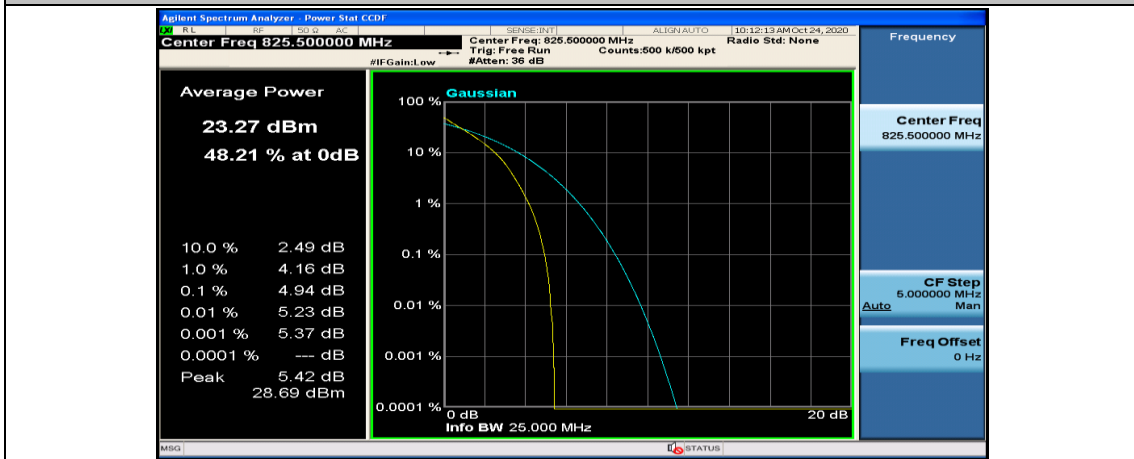




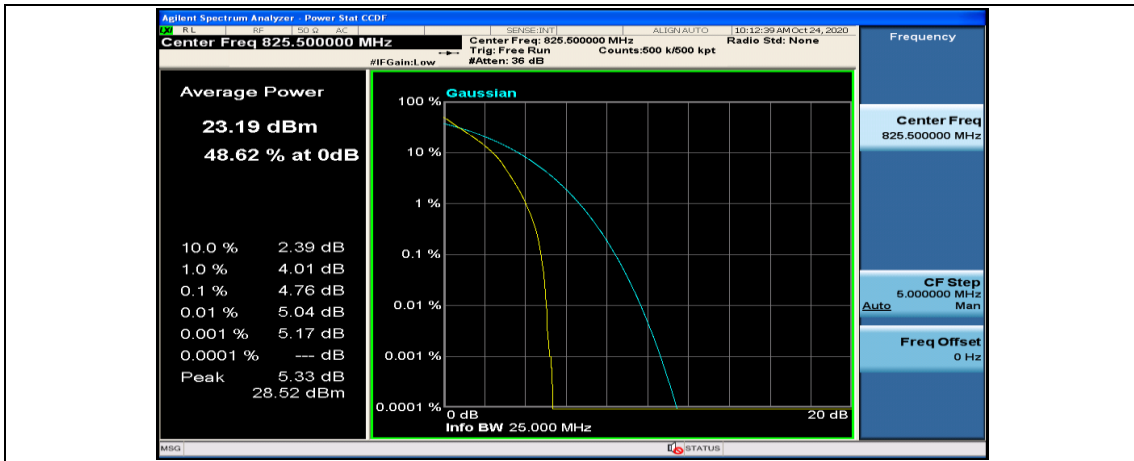
(Channel Bandwidth: 3 MHz)_LCH_QPSK_8RB#4



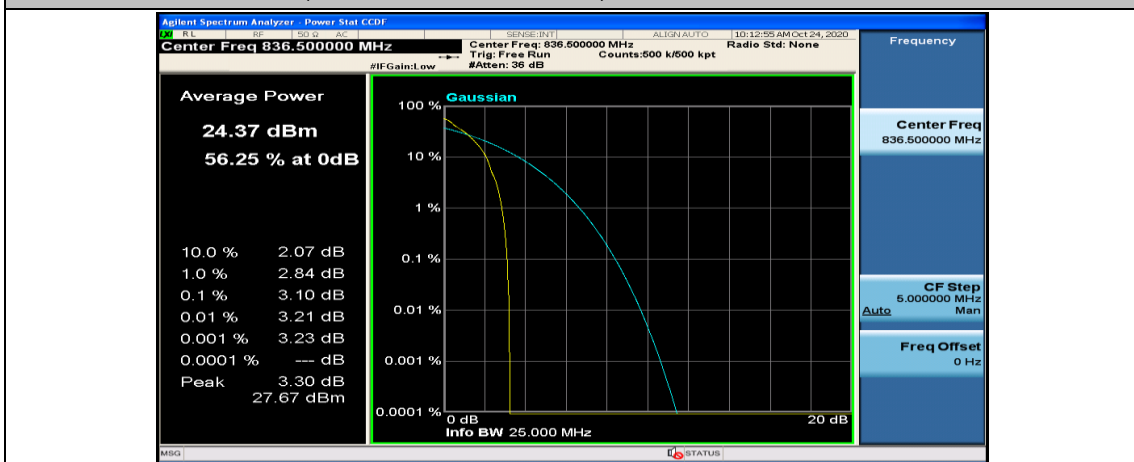
(Channel Bandwidth: 3 MHz)_LCH_QPSK_8RB#7



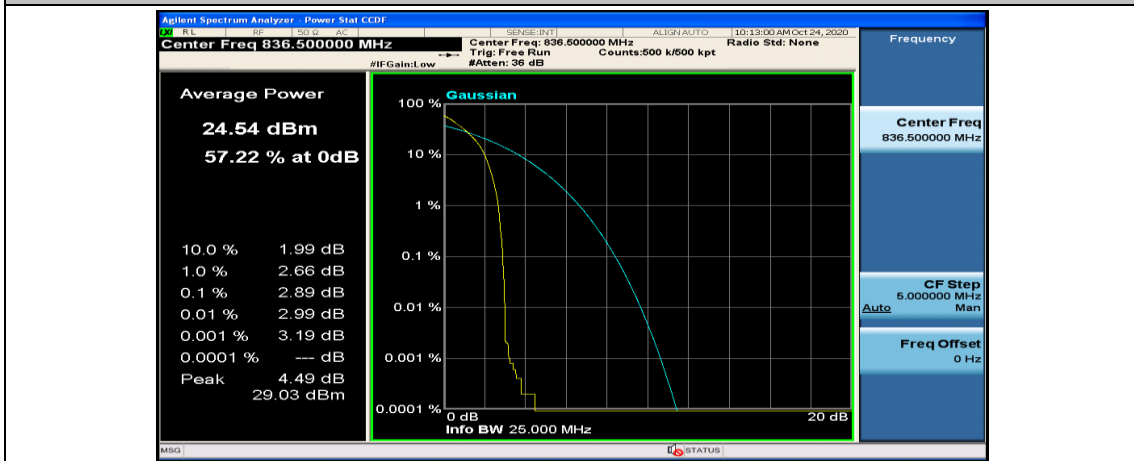
(Channel Bandwidth: 3 MHz)_LCH_QPSK_15RB#0



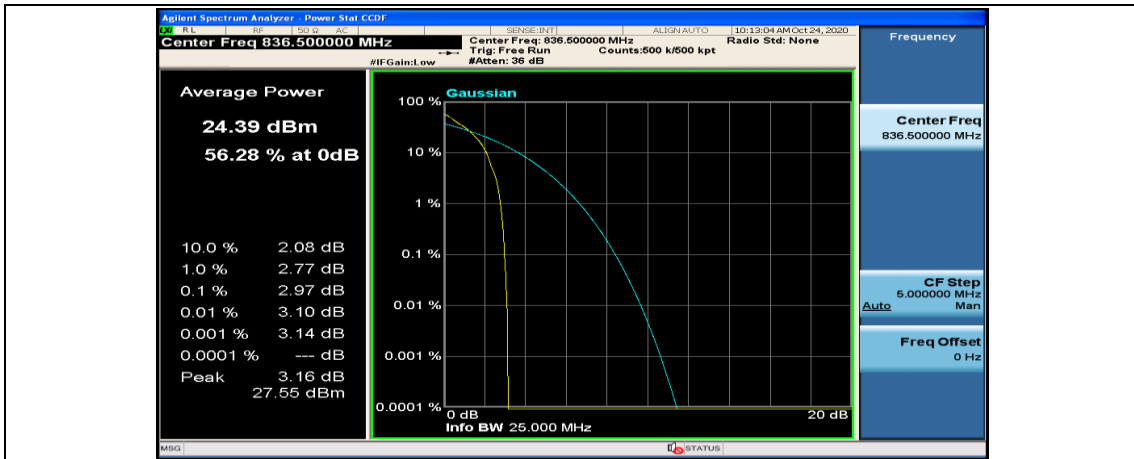
(Channel Bandwidth: 3 MHz)_MCH_QPSK_1RB#0



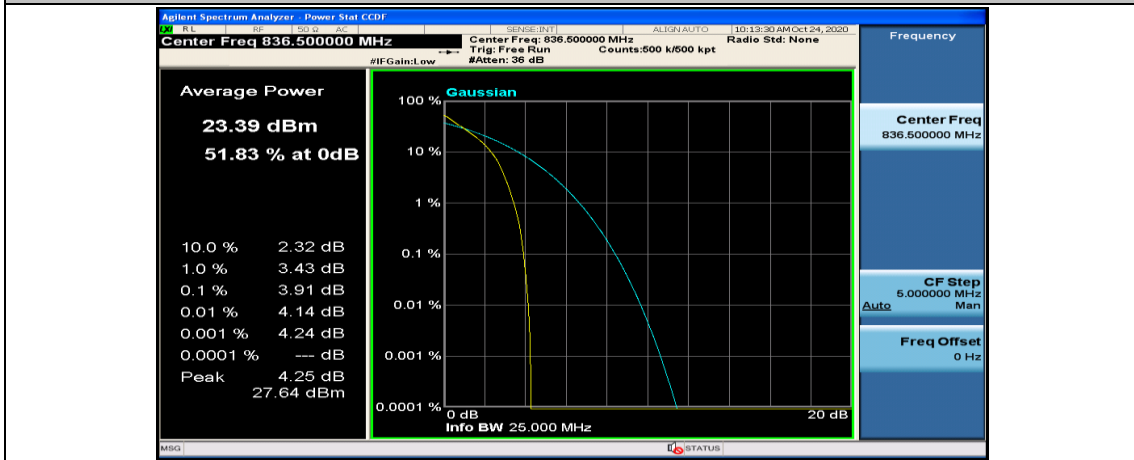
(Channel Bandwidth: 3 MHz)_MCH_QPSK_1RB#7



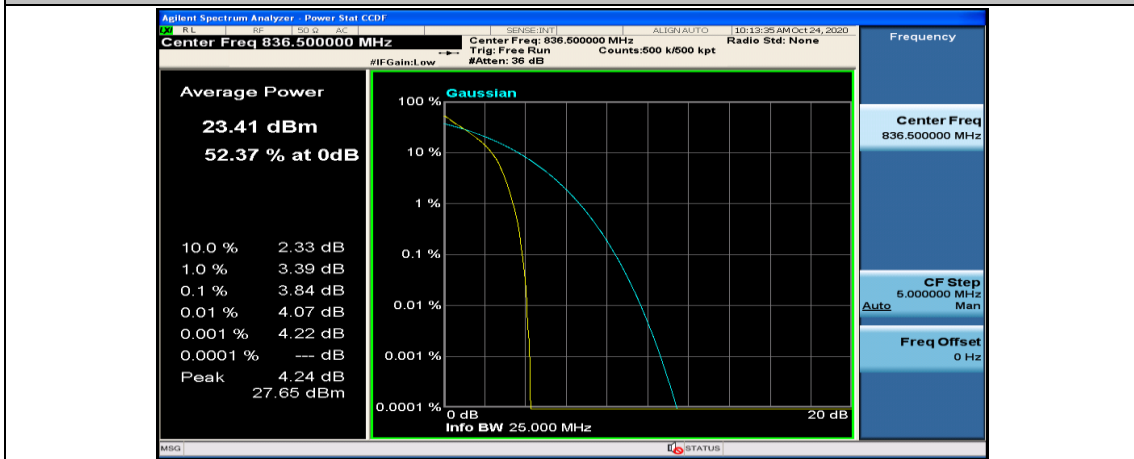
(Channel Bandwidth: 3 MHz)_MCH_QPSK_1RB#14



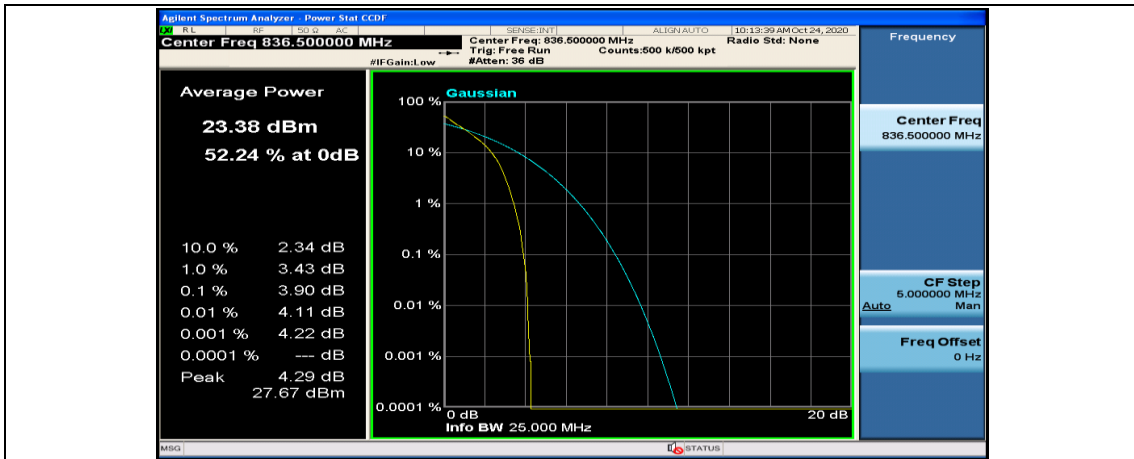
(Channel Bandwidth: 3 MHz)_MCH_QPSK_8RB#0



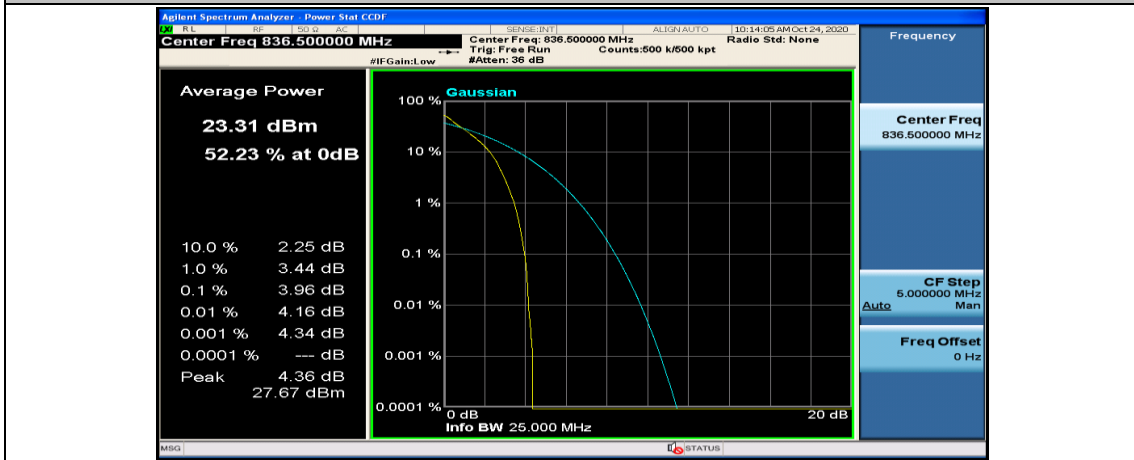
(Channel Bandwidth: 3 MHz)_MCH_QPSK_8RB#4



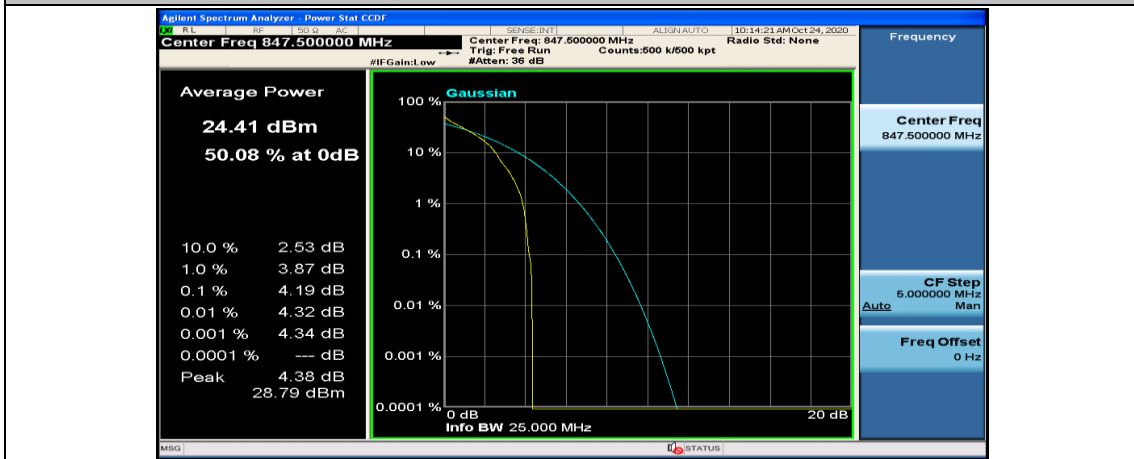
(Channel Bandwidth: 3 MHz)_MCH_QPSK_8RB#7



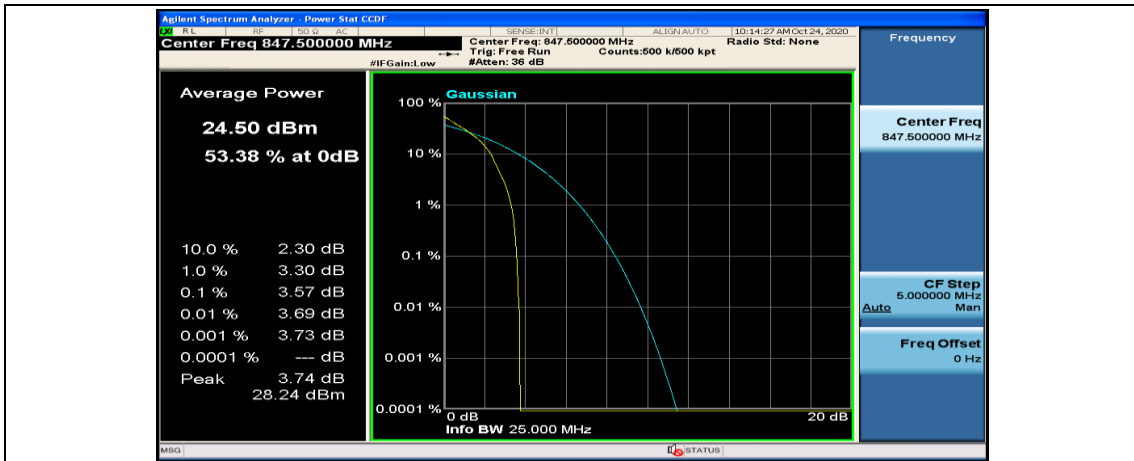
(Channel Bandwidth: 3 MHz)_MCH_QPSK_15RB#0



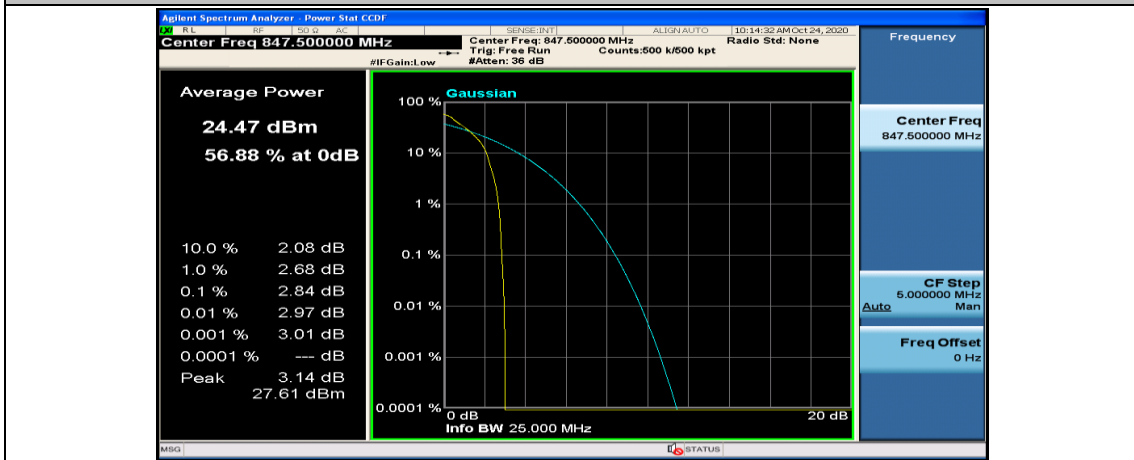
(Channel Bandwidth: 3 MHz)_HCH_QPSK_1RB#0



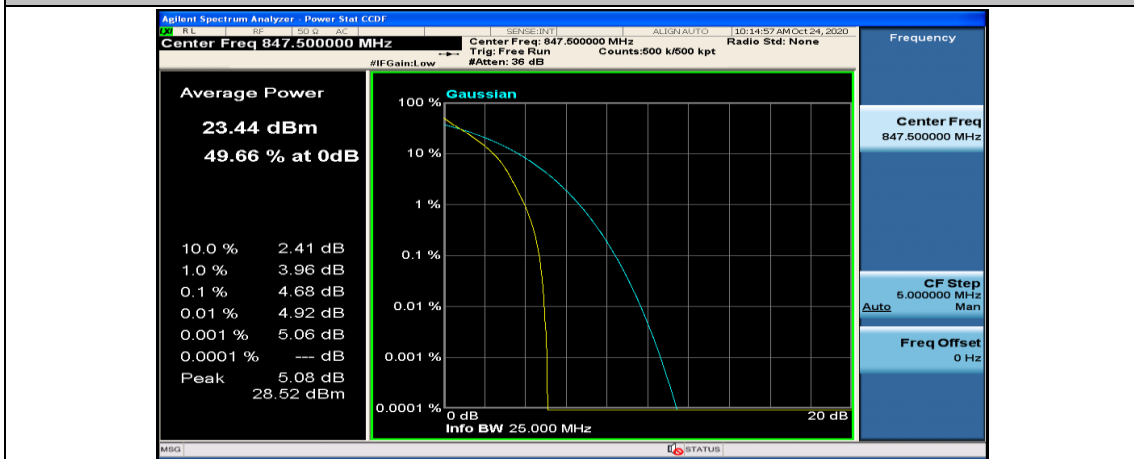
(Channel Bandwidth: 3 MHz)_HCH_QPSK_1RB#7



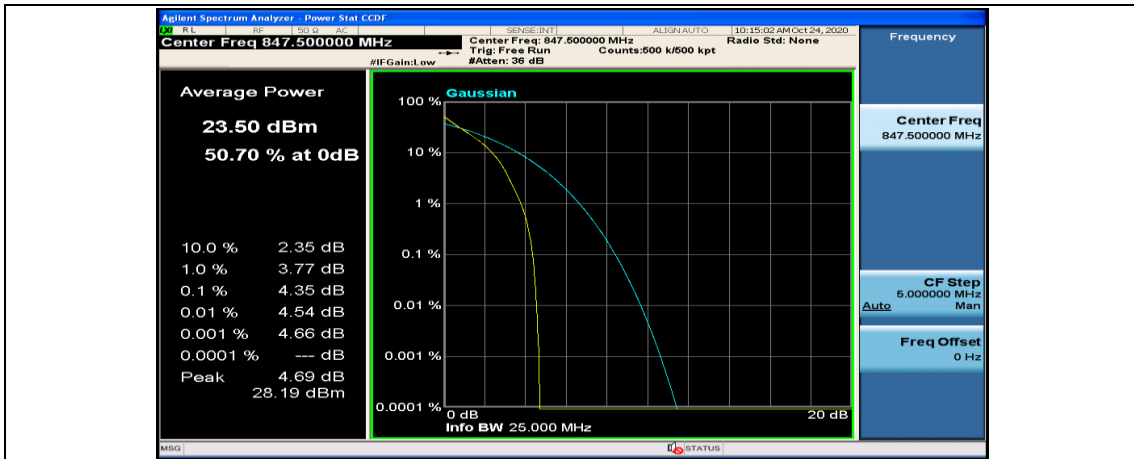
(Channel Bandwidth: 3 MHz)_HCH_QPSK_1RB#14



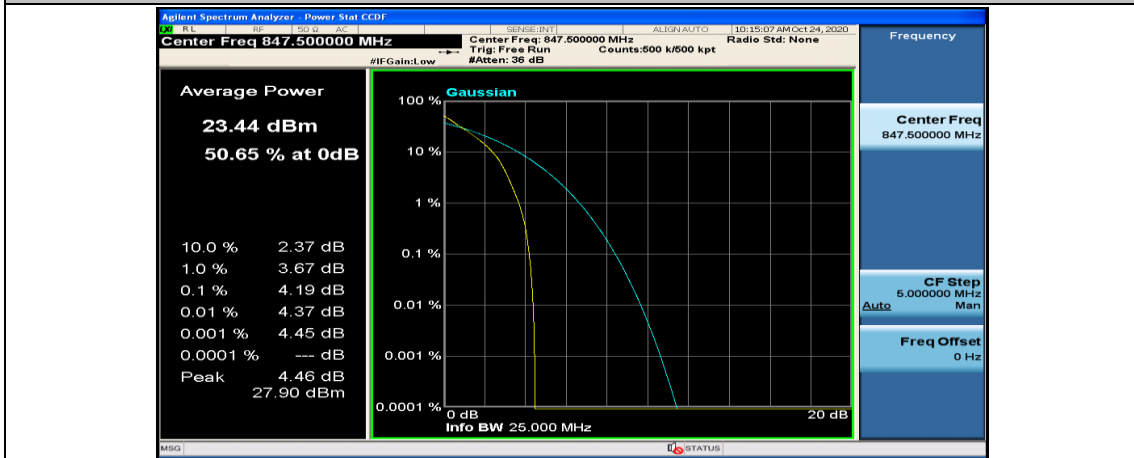
(Channel Bandwidth: 3 MHz)_HCH_QPSK_8RB#0



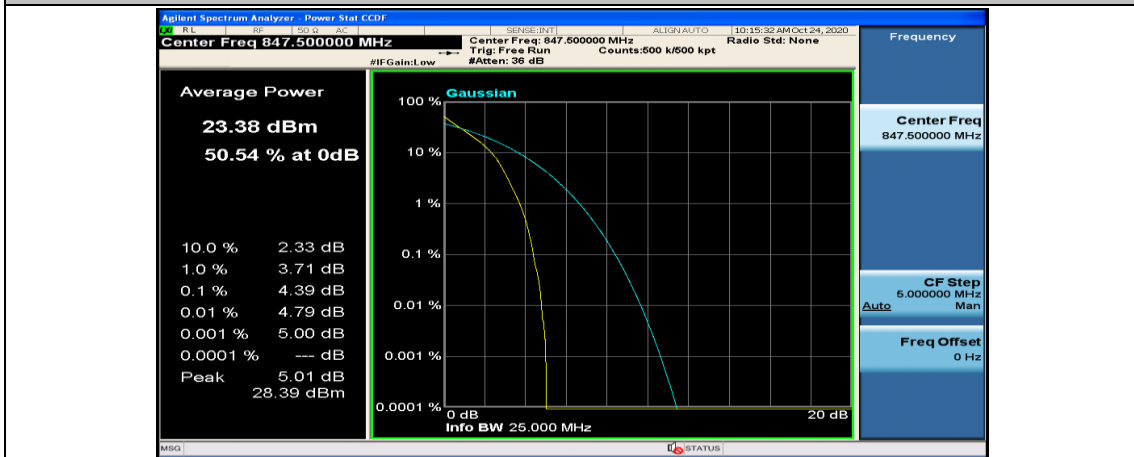
(Channel Bandwidth: 3 MHz)_HCH_QPSK_8RB#4

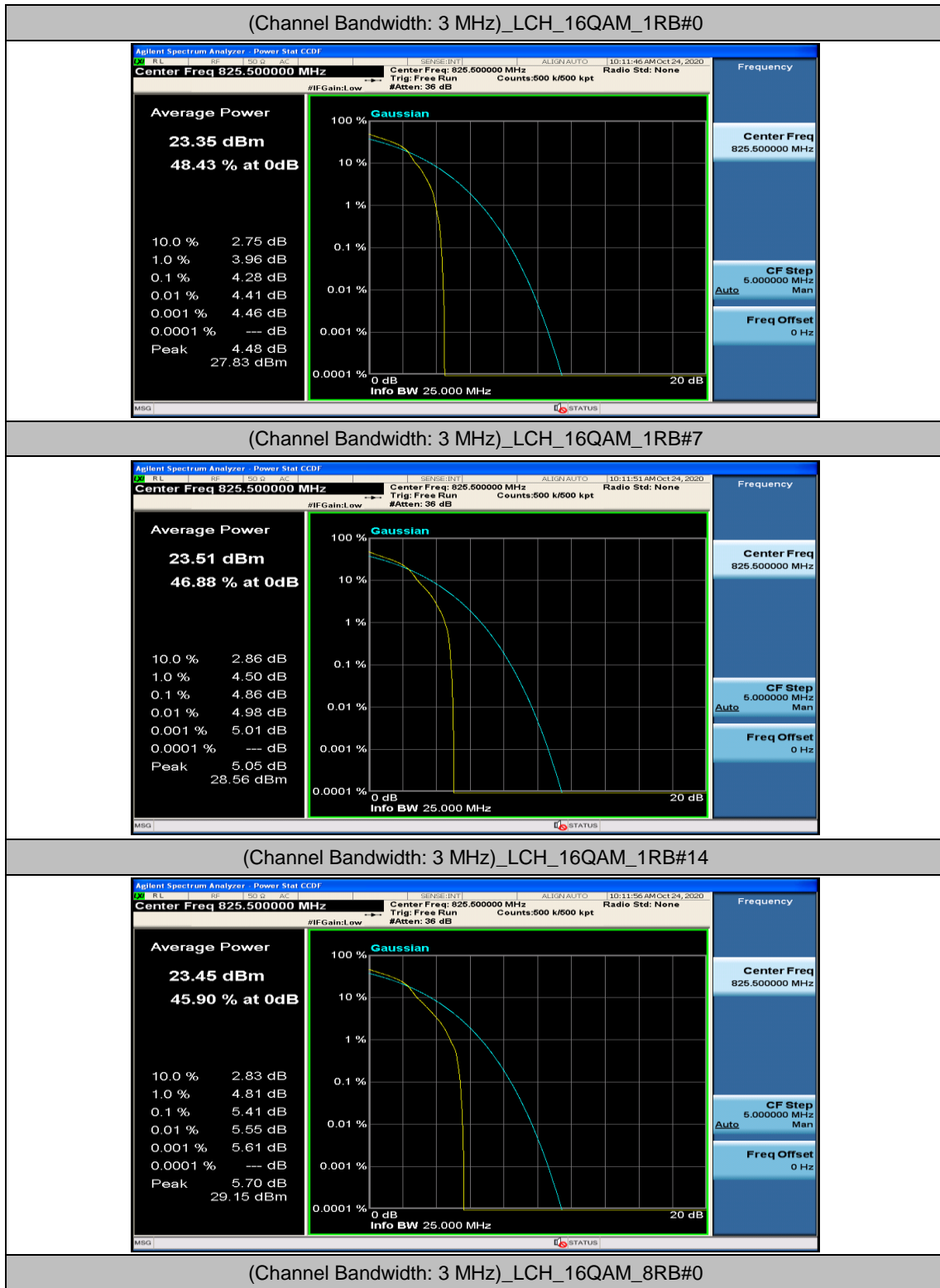


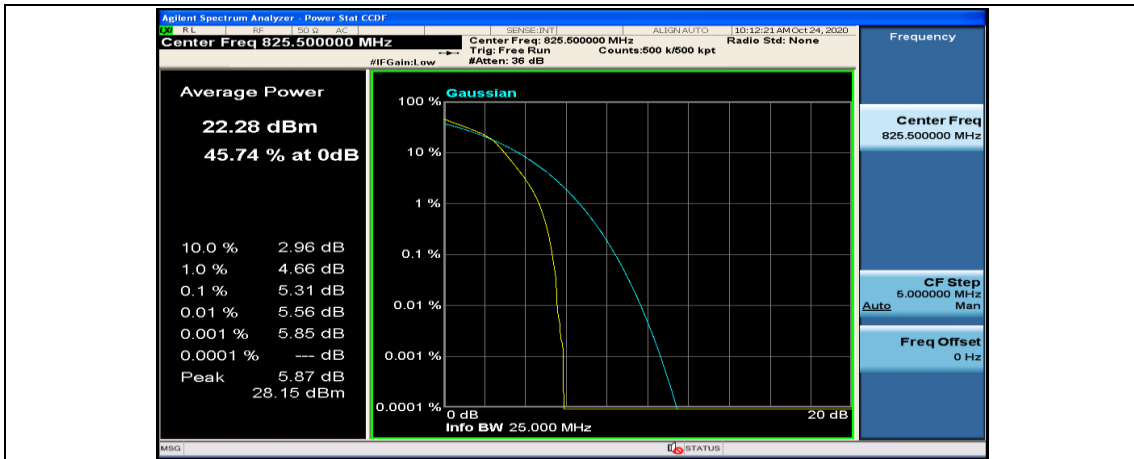
(Channel Bandwidth: 3 MHz)_HCH_QPSK_8RB#7



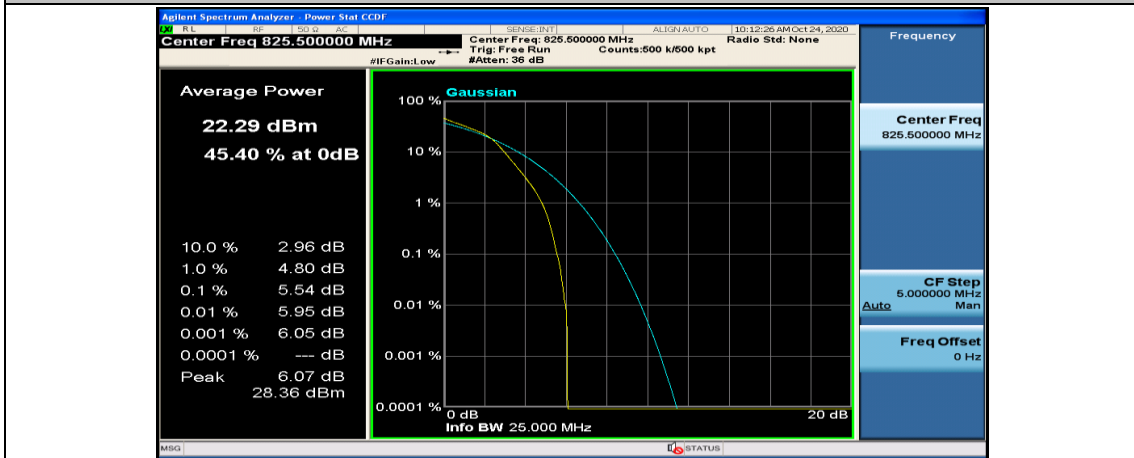
(Channel Bandwidth: 3 MHz)_HCH_QPSK_15RB#0



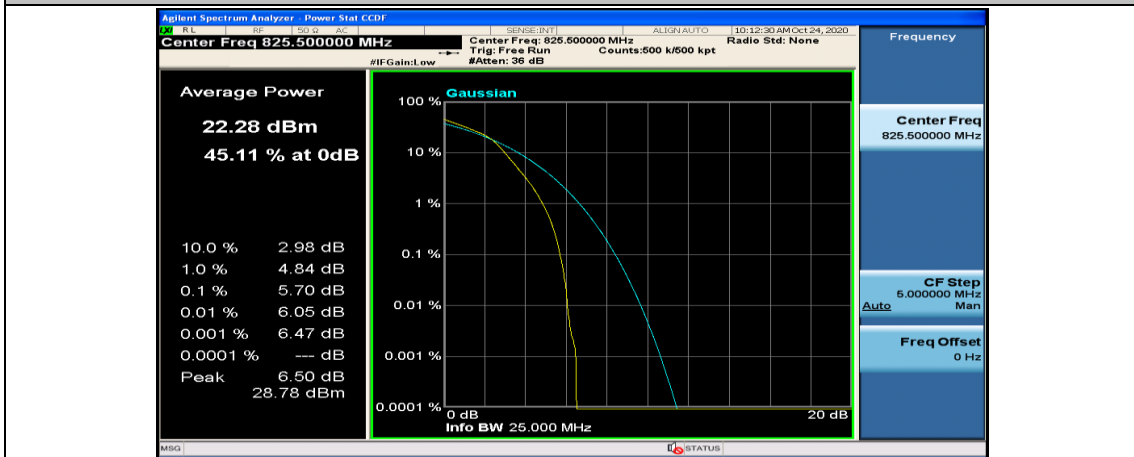




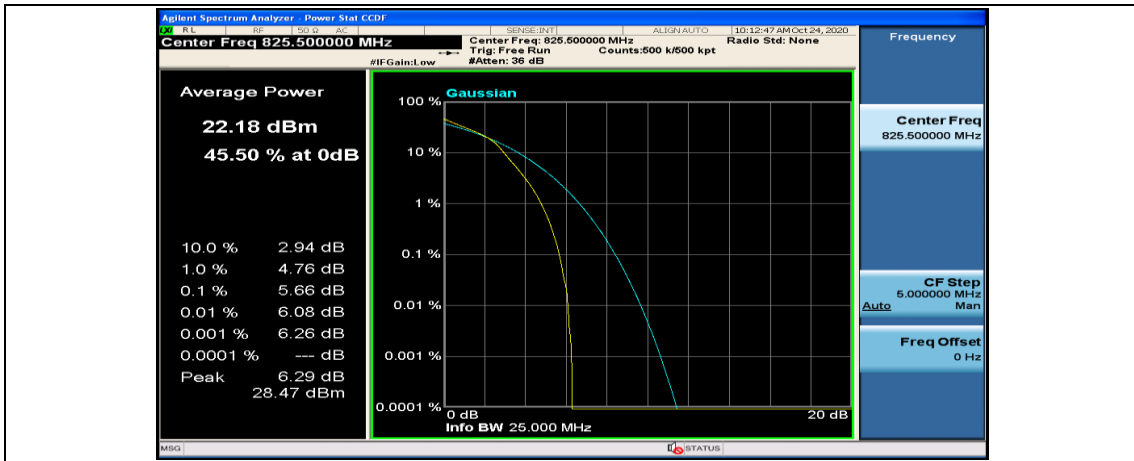
(Channel Bandwidth: 3 MHz)_LCH_16QAM_8RB#4



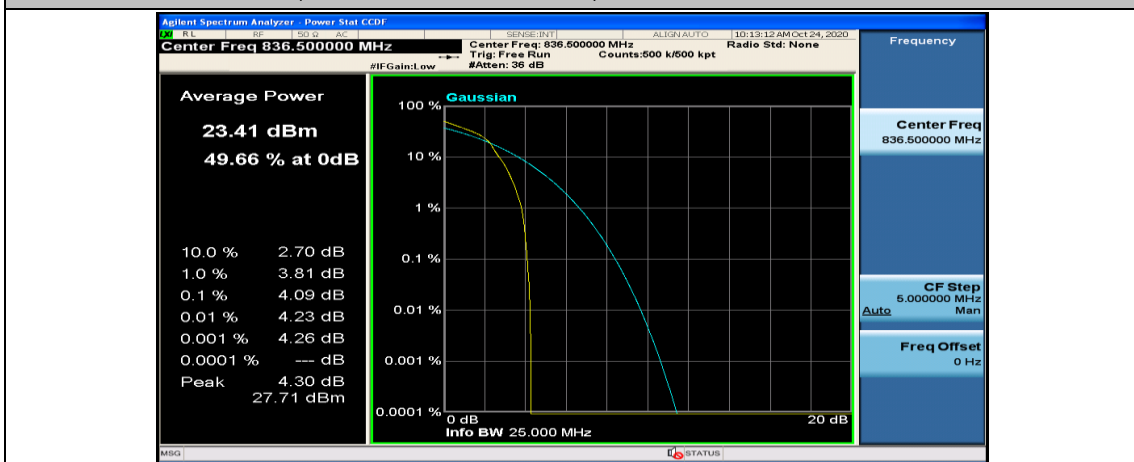
(Channel Bandwidth: 3 MHz)_LCH_16QAM_8RB#7



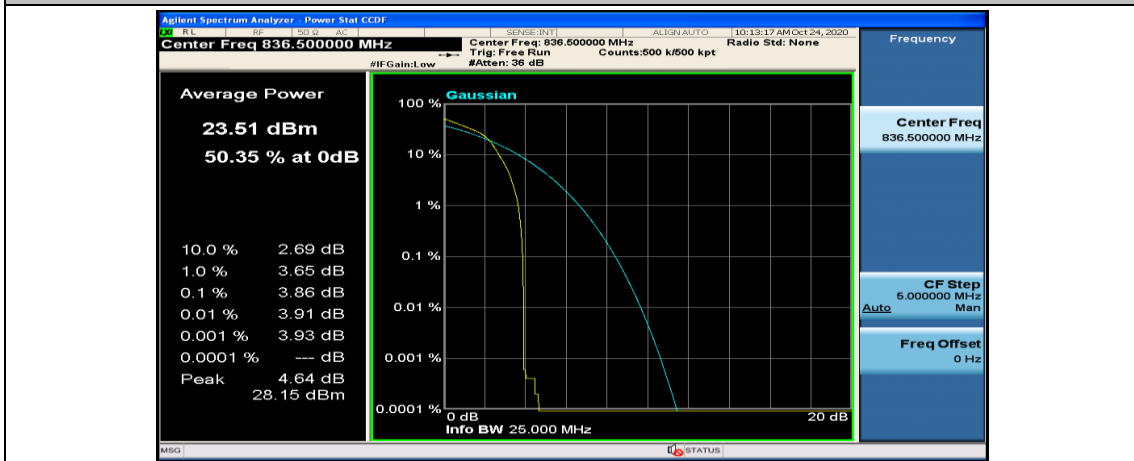
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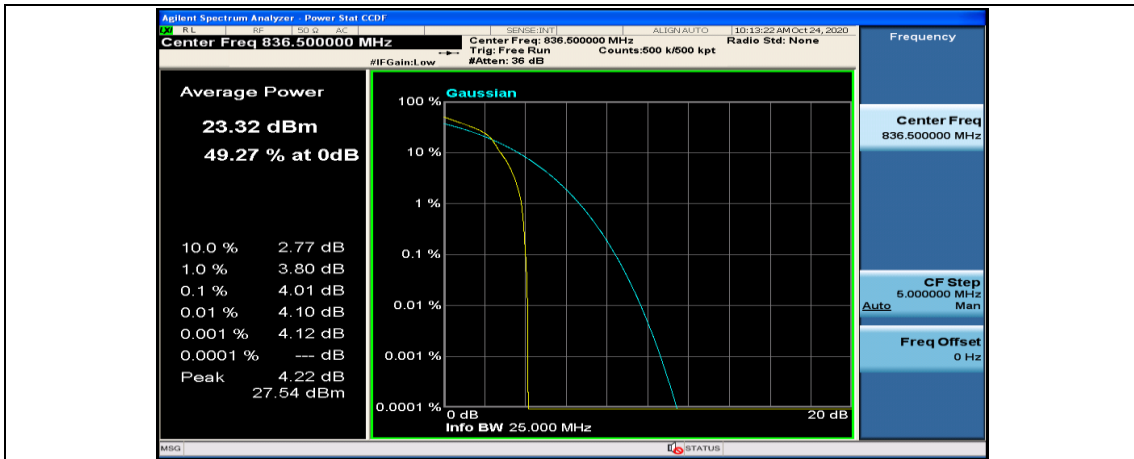
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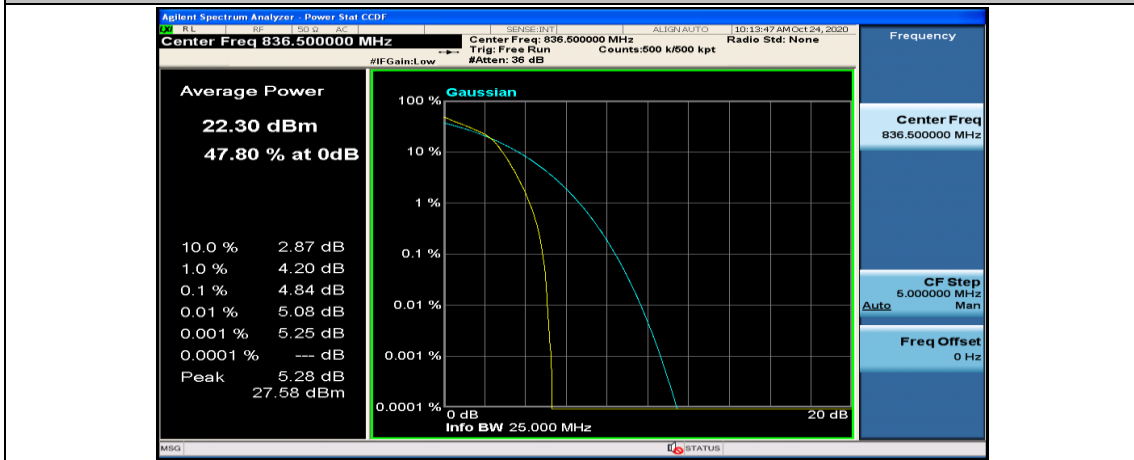
(Channel Bandwidth: 3 MHz)_MCH_16QAM_1RB#7



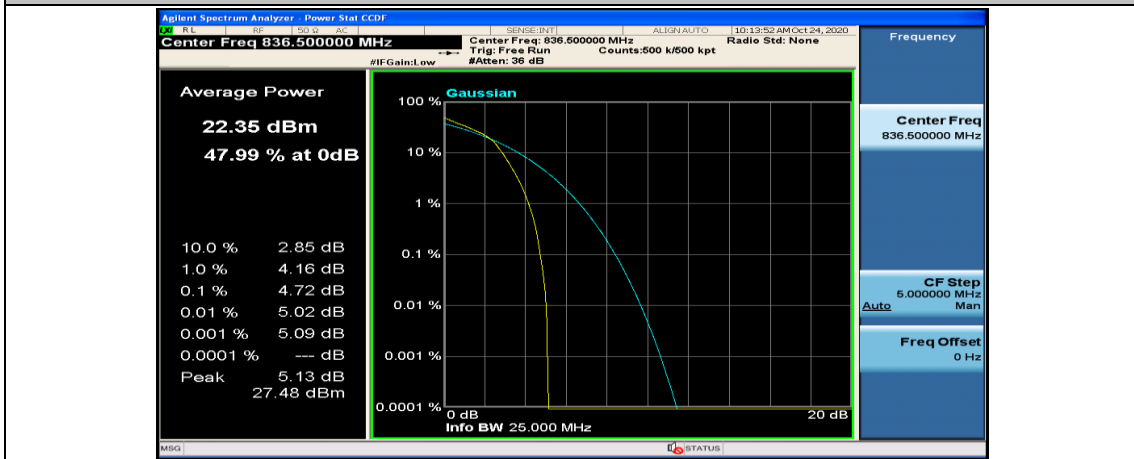
(Channel Bandwidth: 3 MHz)_MCH_16QAM_1RB#14



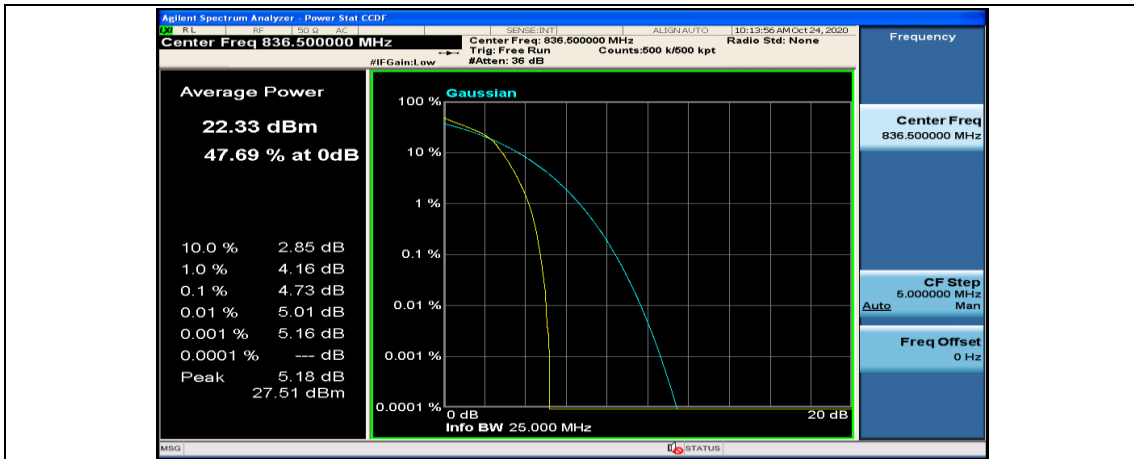
(Channel Bandwidth: 3 MHz)_MCH_16QAM_8RB#0



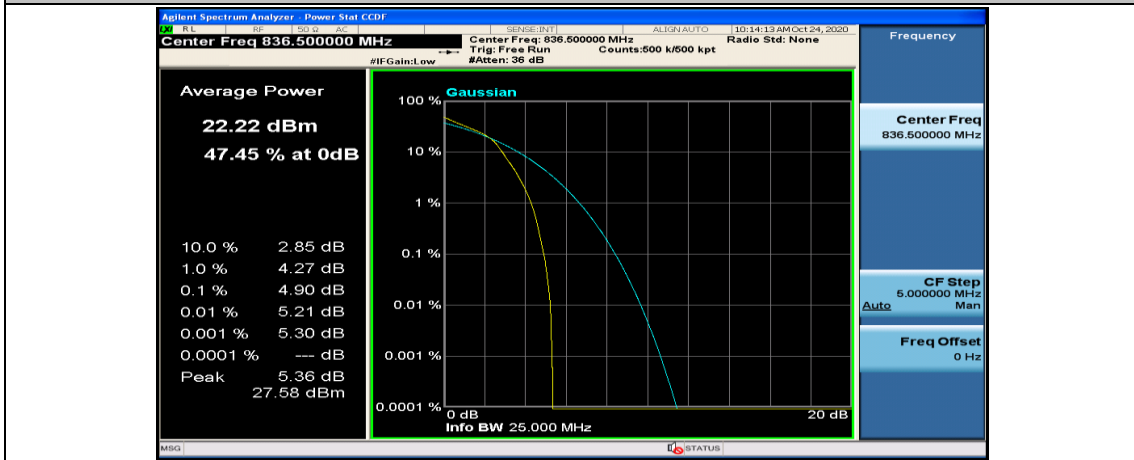
(Channel Bandwidth: 3 MHz)_MCH_16QAM_8RB#4



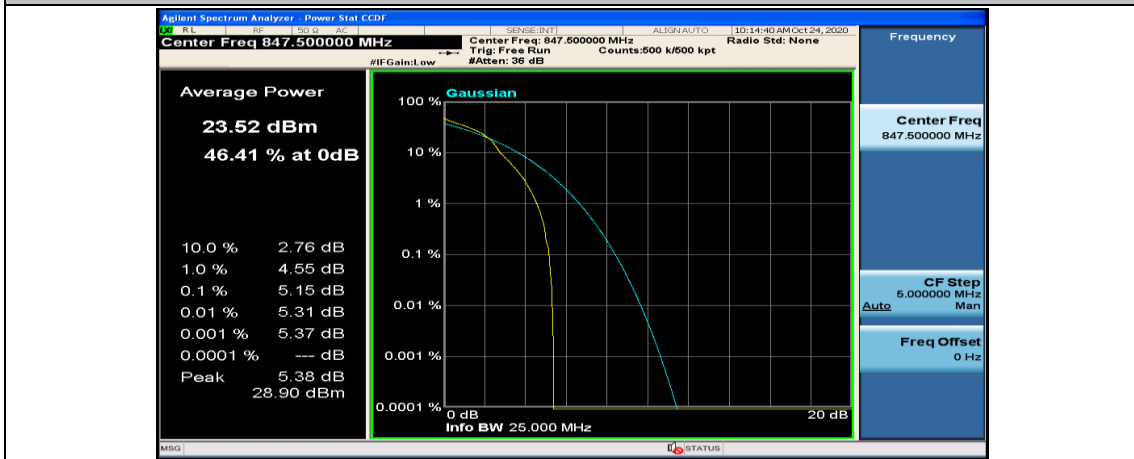
(Channel Bandwidth: 3 MHz)_MCH_16QAM_8RB#7



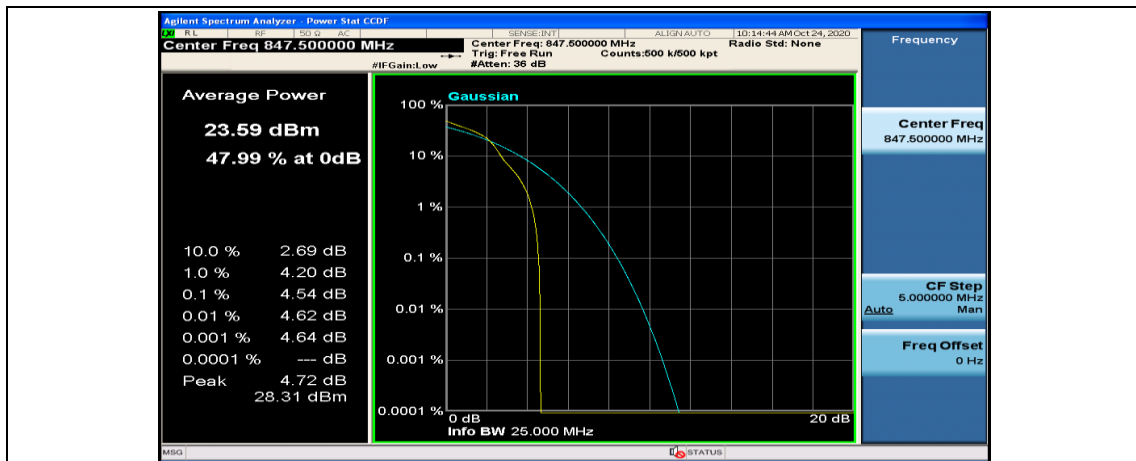
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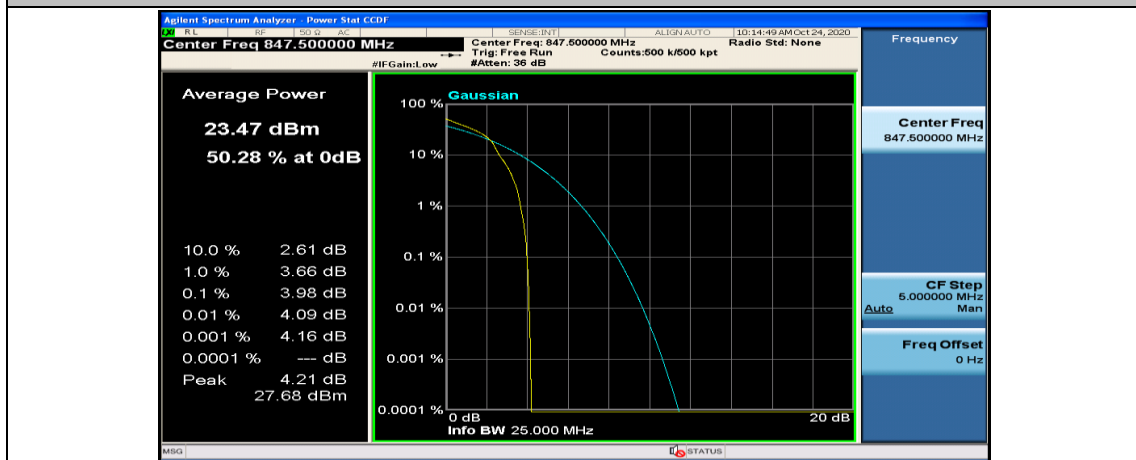
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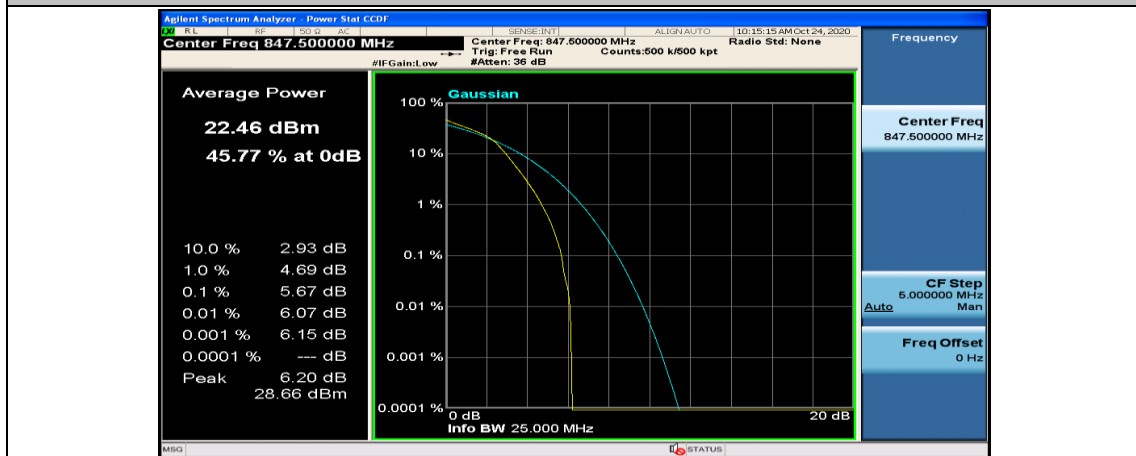
(Channel Bandwidth: 3 MHz)_HCH_16QAM_1RB#7



(Channel Bandwidth: 3 MHz)_HCH_16QAM_1RB#14



(Channel Bandwidth: 3 MHz)_HCH_16QAM_8RB#0



(Channel Bandwidth: 3 MHz)_HCH_16QAM_8RB#4